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FROM THE

UNITED STATES GOVERNMENT

MANUAL OF CLASSIFICATION

OF

SUBJECTS OF INVENTION

OF THE

UNITED STATES PATENT OFFICE

REVISED TO JANUARY 1, 1920

(INCLUDING CLASSIFICATION BULLETIN No. 43)

WASHINGTON
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ORDER OF THE COMMISSIONER.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 1, 1920.

Following is the official classification of subjects of invention in the Patent Office. No changes will be made in class or subclass titles except by order of the Commissioner.

Should occasion arise for any modification, either by the discontinuance or change of any title or by the addition of a new one, the matter will be presented to the Commissioner for his action.

Examiners shall not transfer official copies of specifications and drawings from one class or subclass to another except by approval of the Examiner of Classification.

Changes in classes and subclasses will be published in the OFFICIAL GAZETTE.

J. T. NEWTON,
Commissioner of Patents.

INSTRUCTIONS.

This Manual is an instrument for use in searching classified United States patents. It comprises lists of classes, class and subclass schedules, and an alphabetical index of all class and subclass titles. The classification is designed to aid an investigator to locate a means of the useful arts when he knows its essential characteristics, whether or not he is familiar with the name or names by which it may be called. Effective use of it will require some intellectual effort. The index is designed to enable any one to locate the place in the classification of any means named in the subclass titles. The index is useful for search purposes only when the name by which the investigator knows any art or instrument is the name applied in the classification titles.

In order to get the greatest aid from this Manual, the "Definitions of Revised Classes" and the semiannual "Classification Bulletins" referred to hereafter should be used in connection with it.

PLAN OF MANUAL.

This Manual contains (1) a list of the names of the Primary Examiners in alphabetical order, with the numbers of the rooms and of the division over which each presides; (2) a list of examining divisions arranged in numerical order, with a list of classes comprised in each; (3) a list of classes arranged in alphabetical order, with a reference to the division to which each is assigned; (4) a list of classes arranged in numerical order; (5) a list of all classes arranged in numerical order, with the subclasses in each class indented under the class number; (6) an alphabetical index of all titles of classes and subclasses, copiously cross-referenced.

CLASSES.

In the Patent Office classification, subjects of invention are divided at the present time into 289 classes, each class comprising a number of subclasses. The class numbers run from 1 to 299, except that numbers 96, 136, 159, 198, 201, 209, 239, 260, 269, and 278 are not yet assigned to completed classes. The class numbers are arbitrary, serving merely as marks of identification.

Of the 289 classes, 191 have at this date been revised, the nature of the inventions comprised in each defined or explained, and classes and subclasses to be searched in connection therewith indicated.

HOW REVISED CLASSES ARE IDENTIFIED.

Titles of classes that have been revised are marked by an asterisk in the several class lists and schedules of subclasses, indicating a footnote that refers to the "Definitions of Revised Classes," etc., printed as a supplement to this "Manual of Classification."

HOW TO READ SUBCLASS TITLES AND DEFINITIONS.

The title of any subclass in the indented schedules should be read as follows: (1) The title of the class; (2) the title of the selected major subclass in the vertical column at extreme left; (3) the title of the selected minor subclass indented thereunder in the second vertical column; (4) the title of the selected minor subclass thereunder in the third vertical

column, and so on. Example: Certain subclasses in the schedule of class 187, Elevators, are as follows:

72. Cable-releasers.
73. Car brakes and catches—
74. Door-controlled.
75. Landing-chairs—
76. Car-supported.
77. Driven catch devices—
78. Rotating gear.
79. Well-supported,
80. Car-supported—
81. Cable-controlled—
82. Positive—
83. Rail side.
84. Sliding.
85. Rail face.
86. Rail side—
87. Eccentric.
88. Wedge.
89. Speed-controled—
90. Rail side—
91. Vertically pivoted,
92. Operator-controlled—
93. Rail side.

Thus the full title of subclass 91, class 187, should be read as follows: Elevators, Car brakes and catches, Car-supported, Speed-controlled, Rail- side, Vertically pivoted. The definitions of subclasses should be read in the same manner. Thus the definition of subclass 91, class 187, should be read in connection with the class definition and with the definitions, successively, of subclasses 73, 80, 89, and 90.

The definition of a subclass *may* state only the *difference* between it and the subclass under which it is indented. Full comprehension of its significance, therefore, requires that it be read as a *qualification* of the more generic class and subclass of which it is a species.

NUMBERING OF SUBCLASSES.

In the revised classes numbers are assigned to the subclasses in the inverse order of the complexity of the inventions included therein, the lowest numbers being applied to the complex wholes, such as the miscellaneous, special work, and combined machines, the next higher numbers to the simple whole machines, the next higher to the major parts, and the next higher to the minor parts or details and accessories. The preceding subclasses are deemed "superior" to the succeeding ones. This order of subclasses permits of uniformity in assigning inventions containing features classifiable in more than one subclass, the rule being to assign the invention to the lowest numbered subclass that may properly receive it and cross-reference it into the higher numbered subclass or subclasses adapted to receive its parts. In a revised class having the subclasses arranged according to this rule no invention should be found in any subclass *following* the one properly entitled to receive it, although it *may* be found in *preceding* subclasses as a part of some other organization. (See "The Classification of Patents," 1915.)

In this Manual the undefined classes have their subclasses arranged in alphabetical order. The defined classes have their subclasses arranged in order of superiority, as explained in the preceding paragraph. This order is intended to be numerical; but subclasses of all revised classes are printed in the order of assumed superiority and inferiority, even where the numbering is at variance with the rule.

The rule of superiority and inferiority applies also to patents containing subject-matter classifiable in more than one class, the invention being assigned to the most complex class susceptible of receiving it and cross-referenced, if necessary, to the more elemental classes. Between classes, however, the numerical relation that exists between subclasses of the same class does not obtain.

Illustrated matter not alleged to be a part of the invention protected in a patent is placed by cross-reference.

COMPOSITION OF CLASSES.

All of the statutory classes of invention or any one or more of them—art, machine, manufacture, and composition of matter—may occur in the same class (*Cf.* class 131, Tobacco; class 176, Electric Lamps). There are, however, no classes at present limited to arts or processes.

Processes, particularly mechanical processes, are commonly classified with the instruments specially adapted to aid in practicing them. (*Cf.* class 22, Metal-Founding.)

Processes limited to the use of particular ingredients for producing a specified composition are classified with the composition.

Compositions of matter are commonly classified with the processes, and sometimes with the instruments for making them. (*Cf.* class 23, Chemicals; class 87, Oils, Fats, and Glue; class 134, Liquid Coating Compositions.)

Manufactures or fabricated shaped articles are sometimes classified in classes by themselves (*cf.* class 85, Driven, Headed, and Screw-Threaded Fastenings; class 245, Wire Fabrics and Structure), but are in some classes associated with the processes and instruments for making them. (*Cf.* class 28, Cordage; class 231, Whips and Whip Apparatus.)

In some classes processes are included in the same subclasses with instruments, usually under a participial title (*cf.* class 92, Paper-Making and Fiber Liberation), and in others are placed in distinct subclasses. (*Cf.* class 22, Metal-Founding.)

Blanks are deemed to represent a stage in a process of making an article and are commonly classified with the processes when the form of the blank has wholly disappeared from the finished article. (*Cf.* class 29, Metal-Working, subclass 148, Blanks and processes, *et seq.*) Blanks that have to be searched for among the finished articles are classified with the articles. (*Cf.* class 229, Paper Receptacles.)

Accessories are classed with the instruments to which they are peculiar.

BASIS OF CLASSIFICATION.

As revision of the classification is incomplete and fixed rules of classification do not obtain in both revised and unrevised classes, definite principles to be followed in placing and searching for inventions can be stated only with respect to revised classes.

As all patentable arts or instruments are created for an ulterior utility which may be either general or special, extensive or intensive, the general basis of classification of them is their essential functions or effects. Those having like functions, producing like products or classes of products and like effects or classes of effects, are purposed to be brought together; but the functions or effects that serve as a basis of classification must be the proximate or essential ones and not those remote or accidental ones for which the invention may be adapted.

DIFFERENCES IN SCOPE OR EXTENSION OF CLASSES.

The assemblage of all or less than all of the statutory classes of invention in any class and the extensiveness or intensiveness of the function or effect that is adopted as the characteristic of inventions included in any class depend on the closeness of relationship of the several statutory classes in those inventions possessing that characteristic and on the numerical extent of such inventions. If the numerical extent of the inventions having a common generic function and effect is great, they may be comprised in several classes, each with closely related subclasses and containing only one or two of the statutory classes of invention, as in the group of inventions based on the shaping of metals. (*Cf.* classes 22, Metal-Founding; 80, Metal-Rolling; 205, Metal-Drawing, etc.) If the numerical extent of the inventions is small, they may all be assembled in a class of wide extent and loosely related subclasses containing all of the statutory kinds of invention, as in those based on the production of ornamental effects. (*Cf.* class 41, Ornamentation.)

SUGGESTIONS FOR SEARCH.

In searching for anticipating arts or instruments—

(1) Determine what is the *essential* function or effect of the art or instrument to be sought.
(2) Scan the titles in the selected department or in the numerical or alphabetical list of class titles and note those that appear to include the invention sought.
(3) Note particularly that one which has the most intensive or specific title that includes the invention.
(4) If the selected class has been revised, inspect carefully the class definition. If it indicates the selected class as the proper one,
(5) Scan the schedule of subclasses of the selected class, inspecting first the major coördinate subclasses whose titles begin farthest to the left and the initial letters of which are arranged in vertical alinement.
(6) Select the most specific major subclass title that appears to include the invention (this will usually have the highest number of those that include it) and study the definition thereof, if the class has been revised. If the definition includes the invention,
(7) Scan the schedule of minor subclasses indented one place to the right immediately under the selected major subclass, selecting the most specific title (that having the highest number) of those that appear to include the invention.
(8) So proceed until the most specific minor subclass is reached whose title suggests the inclusion of the invention in question and then inspect the patents composing it.
(9) If this subclass contains nothing pertinent, search the more generic subclasses *under which it is indented*, the miscellaneous subclass, and those above it the titles of which indicate the possibility that they may include the thing sought.
(10) Still if nothing pertinent is found, search the other possible classes noted in the same way.

In all cases in which search in a *revised* class in the highest numbered subclass (or that having the lowest position in the schedule) that can receive the sought invention as a whole fails to discover it search should be continued in those subclasses having lower numbers (or placed higher in the schedule) the titles of which indicate that they may include the sought invention, whether or not search notes direct or suggest search in those subclasses.

EXAMPLE.

A search for a carpenter's handsaw and the art of making it.

A handsaw is generically a woodworking and specifically a wood-sawing hand-tool and involves in its manufacture the metal treating and working arts, among others.

Inspection of the lists of classes discloses four classes that might include a handsaw—to wit, class 144, Woodworking; class 143, Wood-Sawing; class 81, Tools; and class 145, Woodworking-Tools. The two most intensive titles that appear to include the tool sought are 143, Wood-Sawing, and 145, Woodworking-Tools. These are revised classes. The definition of class 143 excludes handsaws, unless the invention is in the cutting part; but that of class 145 does not.

Casting the eye down the major subclasses of the schedule of class 145, subclass 31, Handsaws, with minor subclasses indented thereunder, is reached. As the tool is not an attachment, has not a truss-frame nor a U-frame, search should be made in subclass 31. If there are analogous constructions elsewhere classified, the search directions following the definition thereof will so indicate.

If a saw-handle is sought, a similar procedure will bring the attention to the several subclasses of "Saw-handles" in the same class. If a construction and arrangement of the saw-teeth is sought, the definitions direct the search to class 143, as the cutting-teeth of handsaws and machine-saws may be similar. If a bolt for securing the handle to the blade is sought, it will be apparent that bolts are of more general application than as fas-

tenings for the parts of a handsaw and that the bolt may not therefore be classified in the same class with the saw and parts peculiar thereto. Inspection of one of the lists of classes will disclose class 85, Driven, Headed, and Screw-Threaded Fastenings, as a probable class. Inspection of the schedule and definitions of this class shows several subclasses of "bolts," the most likely one of which should be searched in the manner indicated for the search for the complete tool.

If a process or instrument for making the saw is sought, it should be kept in mind that the manufacture of a saw involves the metal-working arts. Inspection of the lists of classes discloses several metal-working classes, specifically class 76, Metal Tools and Implements, Making. Turning to the definitions of this class, it will be found that saw-making is included in it, and the schedule of subclasses will disclose a number of subclasses indented under subclass 25, Saw-making, in one of which the nearest references will be found *if the process or instrument sought is peculiar to saw-making.* If, however, the sought invention relates to operations or instruments applicable to the manufacture of other things, as to the formation of the sheet of steel from which the saw-blade is to be formed, the lists of classes disclose class 29, Metal-Working, and class 80, Metal-Rolling, as the most likely classes to search; if it relates to shearing out the blade-blank from a sheet or punching the bolt-holes, class 164, Cutting and Punching Sheets and Bars; if to the tempering of the blade, class 148, Metal Treatment; if to the polishing of the blade, class 51, Grinding and Polishing; if to the etching of an ornamental design by acids, class 41, Ornamentation; if to the process or machine for making the wooden handle, class 144, Woodworking; if to the varnish with which the handle is coated, class 134, Liquid Coating Compositions; if to the process or means for applying the varnish to the handle, class 91, Coating, and so on.

EXAMINERS IN CHARGE OF EXAMINING DIVISIONS.

	Div.	Room.		Div.	Room.
Anderson, L. S	27	214	MacNab, J. F	5	167
Armstrong, H. C	11	154	Mead, T. L., Jr., Trade-Marks and Designs		163
Backus, C. D	16	112	Merritt, A. D	4	234
Baldwin, M	2	128	Mitchell, T. H	10	235
Bancroft, J. F	32	278	Moore, M. J	19	236
Benson, A. R	28	225	Morris, B. N	29	147
Brown, J. I	41	125	Morton, G. L	36	204
Brumbaugh, N. J	14	325	Nixon, G. A	13	329
Colwell, J. H	22	249	Oberlin, J. J	40	273
Cowles, A. W	39	220	Pierce, P. P	12	322
Cowles, W. A	33	70	Porter, M. E	18	229
Cutting, H. O	42	114	Rafter, G. S	17	303
Darby, J. J	24	144	Ragan, E. T	31	172
Giles, A. H	45	379	Redrow, W. L	15	308
Glascock, E. S	46	332	Rich, W. J	3	175
Groesbeck, W. D	23	217	Ruckman, W. S	37	107
Hodges, J. S	26	105	Shaffer, C. H	44	253
Holt, F. W	8	133	Simpson, G. R	34	304
Ide, G. R	38	378	Smith, S. F	35	52
Jarboe, C. G	7	312	Sullivan, M. R	30	152
Lane, C. H	43	382	Thurber, W. L	21	212
Lewers, A. M	6	318	Tryon, F. M	9	221
Lightfoot, J. H	25	315	Wright, H	20	179
Loeffler, F. A	1	314			

CLASSES ARRANGED BY EXAMINING DIVISIONS.

DIVISION OF TRADE-MARKS AND DESIGNS.—EXAMINER MEAD.

165. Designs.
Trade-Marks.
Prints and Labels.

DIVISION I.—EXAMINER LOEFFLER.

268. Closure-Operators.
256. Fences.*
39. Gates.*
55. Harrows and Diggers.
111. Planting.*
97. Plows.
275. Scattering-Unloaders.*
47. Trees, Plants, and Flowers.

DIVISION II.—EXAMINER BALDWIN.

6. Bee Culture.*
156. Curtains, Shades, and Screens.
31. Dairy.
167. Medicines.
98. Pneumatics.
99. Preserving.
100. Presses.
135. Tents, Canopies, Umbrellas, and Canes.*
131. Tobacco.

DIVISION III.—EXAMINER RICH.

204. Electrochemistry.
219. Electric Heating and Rheostats.*
263. Heating.*
22. Metal-Founding.*
148. Metal Treatment.*
266. Metallurgical Apparatus.*
75. Metallurgy.
207. Plastic Metal Working.*

DIVISION IV.—EXAMINER MERRITT.

193. Conveyers.
187. Elevators.*
37. Excavating.
294. Handling—Hand and Hoist-Line Implements.*
57. Hoisting.
214. Material or Article Handling.*
243. Pneumatic Despatch.*
254. Pushing and Pulling Implements.*
258. Railway Mail Delivery.*
186. Store-Service.*
212. Traversing Hoists.*

DIVISION V.—EXAMINER MACNAB.

11. Books, Making.*
281. Books, Strips, and Leaves.*
56. Harvesters.*
63. Jewelry.*
282. Manifolding.*
84. Music.
283. Printed Matter.*
289. Tying Cords or Strands.*

DIVISION VI.—EXAMINER LEWERS.

8. Bleaching and Dyeing.
23. Chemicals.
52. Explosives.
71. Fertilizers.
134. Liquid Coating Compositions.*
106. Plastic Compositions.*
252. Substance Preparation.

DIVISION VII.—EXAMINER JARBOE.

46. Games and Toys.
88. Optics.*
95. Photography.*
208. Velocipedes.

* See Definitions of Revised Classes.

DIVISION VIII.—EXAMINER HOLT.

5. Beds.
155. Chairs and Seats.*
272. Flexible-Sheet-Securing Devices.
45. Furniture.
65. Kitchen and Table Articles.
211. Store Furniture.
248. Supports.

DIVISION IX.—EXAMINER TRYON.

230. Air and Gas Pumps.
138. Hydraulic Motors.
162. Injectors and Ejectors.
253. Motors—Fluid.*
170. Motors—Fluid-Current.*
103. Pumps.

DIVISION X.—EXAMINER MITCHELL.

21. Carriages and Wagons (except subclasses 2, 4, 5 and subclasses thereunder, 30, 31, 40, 69 and subclasses thereunder, and 89, for which see Division XLI).
280. Land-Vehicles.*
296. Land-Vehicles, Bodies and Tops.*
298. Land-Vehicles, Dumping.*
180. Motor-Vehicles.*

DIVISION XI.—EXAMINER ARMSTRONG.

12. Boot and Shoe Making.*
36. Boots, Shoes, and Leggings.*
218. Button, Eyelet, and Rivet Setting.*
54. Harness.*
69. Leather Manufactures.*
1. Nailing and Stapling.*
267. Spring Devices.*
231. Whips and Whip Apparatus.*

DIVISION XII.—EXAMINER PIERCE.

74. Machine Elements (except subclasses 13, 37, 45, 46, 69, 70, for which see Division XLV).

DIVISION XIII.—EXAMINER NIXON.

10. Bolt, Nail, Nut, Rivet, and Screw Making.*
79. Button-Making.*
59. Chain, Staple, and Horseshoe Making.*
85. Driven, Headed, and Screw-Threaded Fastenings.*
90. Gear-Cutting, Milling, and Planing.*
205. Metal-Drawing.*
78. Metal Forging and Welding.*
80. Metal-Rolling.*
76. Metal Tools and Implements, Making.*
29. Metal-Working.*
163. Needle and Pin Making.*
82. Turning.*

DIVISION XIV.—EXAMINER BRUMBAUGH.

7. Compound Tools.*
164. Cutting and Punching Sheets and Bars.*
168. Farriery.*
153. Metal-Bending.*
113. Sheet-Metal Ware, Making.*
81. Tools.*
245. Wire Fabrics and Structure.*
140. Wire-Working.*

DIVISION XV.—EXAMINER REDROW.

107. Bread, Pastry, and Confection Making.*
91. Coating.*
49. Glass.*
154. Laminated Fabric and Analogous Manufactures.*
92. Paper-Making and Fiber Liberation.*
25. Plastic Block and Earthenware Apparatus.*
18. Plastics.*

DIVISION XVI.—EXAMINER BACKUS.

250. Radiant Energy.*
178. Telegraphy.*
179. Telephony.*

DIVISION XVII.—EXAMINER RAFTER.

216. Label-Pasting and Paper-Hanging.*
151. Nut and Bolt Locks.*
93. Paper Manufactures.*
41. Ornamentation.*
101. Printing.*
271. Sheet Feeding or Delivering.*
270. Sheet-Material Associating or Folding.*
199. Type-Casting.*
276. Type-Setting.*

* See Definitions of Revised Classes.

DIVISION XVIII.—Examiner Porter.

50. Fluid-Pressure Regulators.*
123. Internal-Combustion Engines (subclasses 1 to 26, 80, 81, 188, 189, and 190).*
122. Liquid Heaters and Vaporizers.*
121. Motors—Expansible-Chamber Type.*
60. Power Plants.*
264. Speed-Responsive Devices.*
160. Steam and Vacuum Pumps.

DIVISION XIX.—Examiner Moore.

236. Automatic Temperature and Humidity Regulation.*
53. Domestic Cooking Vessels.
110. Furnaces.*
237. Heating Systems.*
126. Stoves and Furnaces.*
297. Thermostats and Humidostats.*

DIVISION XX.—Examiner Wright.

3. Artificial Body Members.*
16. Builders' Hardware.
292. Closure-Fasteners.*
30. Cutlery.
32. Dentistry.
70. Locks and Latches.
109. Safes.
27. Undertaking.*

DIVISION XXI.—Examiner Thurber.

13. Brakes and Gins.
19. Carding.
26. Cloth-Finishing.
273. Continuous-Strip Feeding.
28. Cordage.
38. Felt and Fur.
66. Knitting and Netting.
117. Silk.
118. Spinning.*
139. Weaving.
242. Winding and Reeling.*

DIVISION XXII.—Examiner Colwell.

244. Aeronautics.*
42. Firearms.*
89. Ordnance.*

DIVISION XXIII.—Examiner Groesbeck.

181. Acoustics.*
133. Coin-Handling.*
58. Horology.*
234. Recorders.*
235. Registers.*
274. Sound Recording and Reproducing.*
161. Time Controlling Mechanism.*

DIVISION XXIV.—Examiner Darby.

2. Apparel.
223. Apparel Apparatus.
241. Garment-Supporters.
112. Sewing-Machines.*

DIVISION XXV.—Examiner Lightfoot.

259. Agitating.*
17. Butchering.
233. Centrifugal-Bowl Separators.*
183. Gas Separation.*
83. Mills.
130. Threshing.
146. Vegetable Cutters and Crushers.

DIVISION XXVI.—Examiner Hodges.

171. Electricity—Generation.
172. Electricity—Motive Power
290. Prime-Mover Dyanmo Plants.*

DIVISION XXVII.—Examiner Anderson.

15. Brushing and Scrubbing.
51. Grinding and Polishing.
68. Laundry.
141. Washing Apparatus.

DIVISION XXVIII.—Examiner Benson.

123. Internal-Combustion Engines (except subclasses 1 to 26, 80, 81, 188, 189, and 190, for which see Division XVIII).*

* See Definitions of Revised Classes.

DIVISION XXIX.—Examiner Morris.

77. Boring and Drilling.*
279. Chucks or Sockets.*
147. Coopering.*
287. Rod Joints or Couplings.*
157. Wheelwright Machines.*
143. Wood Sawing.*
142. Wood Turning.*
144. Woodworking.*
145. Woodworking Tools.*

DIVISION XXX.—Examiner Sullivan.

240. Illumination.*
67. Illuminating-Burners.*
158. Liquid and Gaseous Fuel Burners.*
197. Typewriting-Machines.*

DIVISION XXXI.—Examiner Ragan.

195. Alcohol.
203. Ammonia, Water, and Wood Distillation.
202. Charcoal and Coke.
44. Fuel.
48. Gas. Heating and Illuminating.*
149. Hides, Skins, and Leather.
222. Hydraulic Cement and Lime.
196. Mineral Oils.
87. Oils, Fats, and Glue.
127. Sugar and Salt.

DIVISION XXXII.—Examiner Bancroft.

261. Gas and Liquid Contact Apparatus.*
257. Heat Exchange.*
62. Refrigeration.*

DIVISION XXXIII.—Examiner W. A. Cowles.

14. Bridges.*
61. Hydraulic and Earth Engineering.*
72. Masonry and Concrete Structures.*
189. Metallic Building Structures.*
94. Roads and Pavements.*
108. Roofs.*

DIVISION XXXIV.—Examiner Simpson.

105. Railway Rolling Stock.*
104. Railways.*
238. Railways, Surface Track.*
246. Railway Switches and Signals.*
295. Railway-Wheels and Axles.*
291. Track-Sanders.*
293. Vehicle-Fenders.*

DIVISION XXXV.—Examiner Smith.

24. Buckles, Buttons, Clasps, Etc.*
40. Card, Picture, and Sign Exhibiting.*
116. Signals and Indicators.*
132. Toilet.

DIVISION XXXVI.—Examiner Morton.

249. Automatic Weighers.*
34. Driers.
265. Force-Measuring.*
33. Geometrical Instruments.*
73. Measuring Instruments.

DIVISION XXXVII.—Examiner Ruckman.

200. Electricity—Circuit Makers and Breakers.*
175. Electricity—General Applications.
176. Electric Lamps.*

DIVISION XXXVIII.—Examiner Ide.

119. Animal Husbandry.*
255. Earth-Boring.*
43. Fishing and Trapping.
262. Mining, Quarrying, and Ice-Harvesting.*
120. Stationery.*
125. Stone-Working.*
166. Wells.*

DIVISION XXXIX.—Examiner A. W. Cowels.

299. Fluid Sprinkling, Spraying, and Diffusing.*
288. Joint-Packings.*
277. Multiple Valves.*
286. Packed Shaft or Rod Joints.*
285. Pipe Joints or Couplings.*
284. Valved Pipe Joints or Couplings.*
251. Valves.*
137. Water Distribution.

* See Definitions of Revised Classes.

DIVISION XL.—EXAMINER OBERLIN.

190. Baggage.*
215. Bottles and Jars.
194. Check-Controlled Apparatus.*
150. Cloth, Leather, and Rubber Receptacles.*
232. Deposit and Collection Receptacles.*
220. Metallic Receptacles.*
224. Package and Article Carriers.*
229. Paper Receptacles.*
206. Special Receptacles and Packages.*
217. Wooden Receptacles.*

DIVISION XLI.—EXAMINER BROWN.

21. Carriages and Wagons (subclasses 2, 4, 5, and subclasses thereunder, 30, 31, 40, 69, and subclasses thereunder, and 89).
152. Resilient Tires and Wheels.

DIVISION XLII.—EXAMINER CUTTING.

177. Electric Signaling.
173. Electricity—Conductors.
247. Electricity—Conduits.
191. Electricity—Transmission to Vehicles.*

DIVISION XLIII.—EXAMINER LANE.

4. Baths and Closets.
221. Dispensing.
225. Dispensing Beverages.
174. Electricity—Medical and Surgical.
169. Fire-Extinguishers.*
182. Sewerage.
128. Surgery.*
210. Water Purification.

DIVISION XLIV.—EXAMINER SHAFFER.

124. Air-Guns, Catapults, and Targets.*
86. Ammunition and Explosive-Charge Making.*
102. Ammunition and Explosive Devices.*
9. Boats and Buoys.*
226. Filling and Closing Portable Receptacles.*
115. Marine Propulsion.*
213. Railway Draft Appliances.
114. Ships.*

DIVISION XLV.—EXAMINER GILES.

192. Clutches.
64. Journal-Boxes, Pulleys, and Shafting.
184. Lubrication.*
74. Machine Elements (subclasses 13, 37, 45, 46, 69, and 70).
185. Motors.*

DIVISION XLVI.—EXAMINER GLASCOCK.

35. Educational Appliances.
227. Fire-Escapes.
228. Ladders.*
129. Paper Files and Binders.*
188. Railway-Brakes.
20. Wooden Buildings.*

* See Definitions of Revised Classes.

CLASSES ALPHABETICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
181	Acoustics *	23	156	Curtains, shades, and screens	2
244	Aeronautics *	22	30	Cutlery	20
259	Agitating *	25	164	Cutting and punching sheets and bars *	14
230	Air and gas pumps	9	31	Dairy	2
124	Air-guns, catapults, and targets *	44	32	Dentistry	20
195	Alcohol	31	232	Deposit and collection receptacles *	40
203	Ammonia, water, and wood distillation	31	165	DESIGNS (Division of Trade-Marks and Designs).	
86	Ammunition and explosive-charge making *	44	225	Dispensing beverages	43
102	Ammunition and explosive devices *	44	221	Dispensing	43
119	Animal husbandry *	38	53	Domestic cooking vessels	19
2	Apparel	24	34	Driers	36
223	Apparel apparatus	24	85	Driven, headed, and screw-threaded fastenings *	13
3	Artificial body members *	20	255	Earth-boring *	38
236	Automatic temperature and humidity regulation *	19	35	Educational appliances	46
249	Automatic weighers *	36	219	Electric heating and rheostats *	3
190	Baggage *	40	176	Electric lamps *	37
4	Baths and closets	43	177	Electric signaling	42
5	Beds	8	200	Electricity—Circuit makers and breakers *	37
6	Bee culture *	2	173	Electricity—Conductors	42
8	Bleaching and dyeing	6	247	Electricity—Conduits	42
9	Boats and buoys *	44	171	Electricity—Generation	26
10	Bolt, nail, nut, rivet, and screw making *	13	174	Electricity—Medical and surgical	43
11	Books. Making *	5	172	Electricity—Motive power	26
281	Books, strips, and leaves *	5	175	Electricity—General applications	37
12	Boot and shoe making *	11	191	Electricity—Transmission to vehicles *	42
36	Boots, shoes, and leggings *	11	204	Electrochemistry	3
77	Boring and drilling *	29	187	Elevators *	4
215	Bottles and jars	40	37	Excavating	4
13	Brakes and gins	21	52	Explosives	6
107	Bread, pastry, and confection making *	15	168	Farriery *	14
14	Bridges *	33	38	Felt and fur	21
15	Brushing and scrubbing	27	256	Fences *	1
24	Buckles, buttons, clasps, etc. *	35	71	Fertilizers	6
16	Builders' hardware	20	226	Filling and closing portable receptacles *	44
17	Butchering	25	42	Firearms *	22
218	Button, eyelet, and rivet setting *	11	227	Fire-escapes	46
79	Button-making *	13	169	Fire-extinguishers *	43
19	Carding	21	43	Fishing and trapping	38
40	Card, picture, and sign exhibiting *	35	272	Flexible-sheet-securing devices	8
21	Carriages and wagons	10	50	Fluid-pressure regulators *	18
233	Centrifugal-bowl separators *	25	299	Fluid sprinkling, spraying, and diffusing *	39
59	Chain, staple, and horseshoe making *	13	265	Force-measuring *	36
155	Chairs and seats *	8	44	Fuel	31
202	Charcoal and coke	31	110	Furnaces *	19
194	Check-controlled apparatus *	40	45	Furniture	8
23	Chemicals	6	46	Games and toys	7
279	Chucks and sockets *	29	241	Garment-supporters	24
292	Closure-fasteners *	20	261	Gas and liquid contact apparatus *	32
268	Closure-operators	1	48	Gas. Heating and illuminating *	31
26	Cloth-finishing	21	183	Gas separation *	25
150	Cloth, leather, and rubber receptacles *	40	39	Gates *	1
192	Clutches	45	90	Gear-cutting, milling, and planing *	13
91	Coating *	15	33	Geometrical instruments *	36
133	Coin-handling *	23	49	Glass *	15
7	Compound tools *	14	51	Grinding and polishing	27
273	Continuous-strip feeding	21	294	Handling—Hand and hoist-line implements *	4
193	Conveyers	4	54	Harness *	11
147	Coopering *	29	55	Harrows and diggers	1
28	Cordage	21	56	Harvesters *	5

* See Definitions of Revised Classes.

Number.	Class.	Division.
257	Heat exchange *	32
263	Heating *	3
237	Heating systems *	19
149	Hides, skins, and leather	31
57	Hoisting	4
58	Horology *	23
222	Hydraulic cement and lime	31
61	Hydraulic and earth engineering *	33
138	Hydraulic motors	9
240	Illumination *	30
67	Illuminating-burners *	30
162	Injectors and ejectors	9
123	Internal-combustion engines *	28
63	Jewelry *	5
288	Joint-packings *	39
64	Journal-boxes, pulleys, and shafting	45
65	Kitchen and table articles	8
66	Knitting and netting	21
216	Label-pasting and paper-hanging *	17
228	Ladders *	46
154	Laminated fabric and analogous manufactures *	15
280	Land-vehicles *	10
296	Land-vehicles. Bodies and tops *	10
298	Land-vehicles. Dumping *	10
68	Laundry	27
69	Leather manufactures *	11
158	Liquid and gaseous fuel burners *	30
134	Liquid coating compositions *	6
122	Liquid heaters and vaporizers *	18
70	Locks and latches	20
184	Lubrication *	45
74	Machine elements	12
282	Manifolding *	5
115	Marine propulsion *	44
72	Masonry and concrete structures *	33
214	Material or article handling *	4
73	Measuring instruments	36
167	Medicines	2
153	Metal-bending *	14
205	Metal-drawing *	13
78	Metal forging and welding *	13
22	Metal-founding *	3
148	Metal treatment *	3
189	Metallic building structures *	33
220	Metallic receptacles *	40
266	Metallurgical apparatus *	3
75	Metallurgy	3
80	Metal-rolling *	13
76	Metal tools and implements. Making *	13
29	Metal-working *	13
83	Mills	25
196	Mineral oils	31
262	Mining, quarrying, and ice-harvesting *	38
180	Motor-vehicles *	10
185	Motors *	45
121	Motors—Expansible-chamber type *	18
253	Motors—Fluid *	9
170	Motors—Fluid-current *	9
277	Multiple valves *	39
84	Music	5
1	Nailing and stapling *	11
163	Needle and pin making *	13
151	Nut and bolt locks *	17
87	Oils, fats, and glue	31
88	Optics *	7
89	Ordnance *	22
41	Ornamentation *	17
224	Package and article carriers *	40
286	Packed shaft or rod joints *	39
129	Paper files and binders *	46
92	Paper-making and fiber liberation *	15
93	Paper manufactures *	17
229	Paper receptacles *	40
95	Photography *	7
285	Pipe joints or couplings *	39
111	Planting *	1
25	Plastic block and earthenware apparatus *	15
106	Plastic compositions *	6
207	Plastic metal working *	8
18	Plastics *	15
97	Plows	1
243	Pneumatic despatch *	4
98	Pneumatics	2
60	Power plants *	18
99	Preserving	2
100	Presses	2
290	Prime-mover dynamo plants *	26
285	Printed matter *	5
101	Printing *	17
....	PRINTS AND LABELS (Division of Trade-Marks and Designs.	
103	Pumps	9
254	Pushing and pulling implements *	4
250	Radiant energy *	16
188	Railway-brakes	46
213	Railway draft appliances	44
258	Railway mail delivery *	4
105	Railway rolling-stock *	34
246	Railway switches and signals *	34
295	Railway-wheels and axles *	34
104	Railways *	34
238	Railways. Surface track *	34
234	Recorders *	23
62	Refrigeration *	32
235	Registers *	23
152	Resilient tires and wheels	41
94	Roads and pavements *	33
287	Rod joints or couplings *	29
108	Roofs *	33
109	Safes	20
275	Scattering-unloaders *	1
182	Sewerage	43
112	Sewing-machines *	24
271	Sheet feeding or delivering *	17
270	Sheet-material associating or folding *	17
113	Sheet-metal ware. Making *	14
114	Ships *	44
116	Signals and indicators *	35
117	Silk	21
274	Sound recording and reproducing *	23
206	Special receptacles and packages *	40
264	Speed-responsive devices *	18
118	Spinning *	21
267	Spring devices *	11
120	Stationery *	38
160	Steam and vacuum pumps	18
125	Stone-working *	38
211	Store furniture	8
186	Store-service *	4

* See Definitions of Revised Classes.

Number.	Class.	Division.
126	Stoves and furnaces *	19
252	Substance preparation	6
127	Sugar and salt	31
248	Supports	8
128	Surgery *	43
178	Telegraphy *	16
179	Telephony *	16
135	Tents, canopies, umbrellas, and canes *	2
297	Thermostats and humidostats *	19
130	Threshing	25
161	Time controlling mechanism *	23
131	Tobacco	2
132	Toilet	35
81	Tools *	14
291	Track-sanders *	34
....	TRADE-MARKS (Division of Trade-Marks and Designs).	
212	Traversing hoists *	4
47	Trees, plants, and flowers	1
82	Turning *	13
289	Tying cords or strands *	5
199	Type-casting *	17
276	Type-setting *	17
197	Typewriting-machines *	30
27	Undertaking *	20
284	Valved pipe joints or couplings *	39
251	Valves *	39
146	Vegetable cutters and crushers	25
293	Vehicle-fenders *	34
208	Velocipedes	7
141	Washing apparatus	27
137	Water distribution	39
210	Water purification	43
139	Weaving	21
166	Wells *	38
157	Wheelwright-machines *	29
231	Whips and whip apparatus *	11
242	Winding and reeling *	21
245	Wire fabrics and structure *	14
140	Wire-working *	14
20	Wooden buildings *	46
217	Wooden receptacles *	40
143	Wood-sawing *	29
142	Wood-turning *	29
144	Woodworking *	29
145	Woodworking-tools *	29

* See Definitions of Revised Classes.

CLASSES NUMERICALLY ARRANGED.

Number.	Class.	Division.	Number.	Class.	Division.
1	Nailing and stapling*	11	61	Hydraulic and earth engineering*	33
2	Apparel	24	62	Refrigeration*	32
3	Artificial body members*	20	63	Jewelry*	5
4	Baths and closets	43	64	Journal-boxes, pulleys, and shafting	45
5	Beds	8	65	Kitchen and table articles	8
6	Bee culture*	2	66	Knitting and netting	21
7	Compound tools*	14	67	Illuminating-burners*	30
8	Bleaching and dyeing	6	68	Laundry	27
9	Boats and buoys*	44	69	Leather manufactures*	11
10	Bolt, nail, nut, rivet, and screw making*	13	70	Locks and latches	20
11	Books. Making*	5	71	Fertilizers	6
12	Boot and shoe making*	11	72	Masonry and concrete structures*	33
13	Brakes and gins	21	73	Measuring instruments	36
14	Bridges*	33	74	Machine elements	12
15	Brushing and scrubbing	27	75	Metallurgy	3
16	Builders' hardware	20	76	Metal tools and implements. Making*	13
17	Butchering	25	77	Boring and drilling*	29
18	Plastics*	15	78	Metal forging and welding*	13
19	Carding	21	79	Button-making*	13
20	Wooden buildings*	46	80	Metal-rolling*	13
21	Carriages and wagons	10	81	Tools*	14
22	Metal-founding*	3	82	Turning*	13
23	Chemicals	6	83	Mills	26
24	Buckles, buttons, clasps, etc.*	35	84	Music	5
25	Plastic block and earthenware apparatus*	15	85	Driven, headed, and screw-threaded fastenings*	13
26	Cloth-finishing	21	86	Ammunition and explosive-charge making*	44
27	Undertaking*	20	87	Oils, fats, and glue	31
28	Cordage	21	88	Optics*	7
29	Metal-working*	13	89	Ordnance*	22
30	Cutlery	20	90	Gear-cutting, milling and planing*	13
31	Dairy	2	91	Coating*	15
32	Dentistry	20	92	Paper-making and fiber liberation*	15
33	Geometrical instruments*	36	93	Paper manufactures*	17
34	Driers	36	94	Roads and pavements*	33
35	Educational appliances	46	95	Photography*	7
36	Boots, shoes, and leggings*	11	97	Plows	1
37	Excavating	4	98	Pneumatics	2
38	Felt and fur	21	99	Preserving	2
39	Gates*	1	100	Presses	2
40	Card, picture, and sign exhibiting*	35	101	Printing*	17
41	Ornamentation*	17	102	Ammunition and explosive devices*	44
42	Firearms*	22	103	Pumps	9
43	Fishing and trapping	38	104	Railways*	34
44	Fuel	31	105	Railway rolling-stock*	34
45	Furniture	8	106	Plastic compositions*	6
46	Games and toys	7	107	Bread, pastry, and confection making*	15
47	Trees, plants, and flowers	1	108	Roofs*	33
48	Gas. Heating and illuminating*	31	109	Safes	20
49	Glass*	15	110	Furnaces*	19
50	Fluid-pressure regulators*	18	111	Planting*	1
51	Grinding and polishing	27	112	Sewing-machines*	24
52	Explosives	6	113	Sheet-metal ware. Making*	14
53	Domestic cooking vessels	19	114	Ships*	44
54	Harness*	11	115	Marine propulsion*	44
55	Harrows and diggers	1	116	Signals and indicators*	35
56	Harvesters*	5	117	Silk	21
57	Hoisting	4	118	Spinning*	21
58	Horology*	23	119	Animal husbandry*	38
59	Chain, staple, and horseshoe making*	13	120	Stationery*	38
60	Power plants*	18	121	Motors—Expansible-chamber type*	18

* See Definitions of Revised Classes.

Number.	Class.	Division.
122	Liquid heaters and vaporizers*	18
123	Internal combustion engines*	28
124	Air-guns, catapults, and targets*	44
125	Stone-working*	38
126	Stoves and furnaces*	19
127	Sugar and salt	31
128	Surgery*	43
129	Paper files and binders*	46
130	Threshing	25
131	Tobacco	2
132	Toilet	35
133	Coin-handling*	23
134	Liquid coating compositions*	6
135	Tents, canopies, umbrellas, and canes*	2
137	Water distribution	39
138	Hydraulic motors	9
139	Weaving	21
140	Wire-working*	14
141	Washing apparatus	27
142	Wood-turning*	29
143	Wood-sawing*	29
144	Woodworking*	29
145	Woodworking-tools*	29
146	Vegetable cutters and crushers	25
147	Coopering*	29
148	Metal treatment*	3
149	Hides, skins, and leather	31
150	Cloth, leather, and rubber receptacles*	40
151	Nut and bolt locks*	17
152	Resilient tires and wheels	41
153	Metal-bending*	14
154	Laminated fabric and analogous manufactures*	15
155	Chairs and seats*	8
156	Curtains, shades, and screens	2
157	Wheelwright-machines*	29
158	Liquid and gaseous fuel burners*	30
160	Steam and vacuum pumps	18
161	Time controlling mechanism*	23
162	Injectors and ejectors	9
163	Needle and pin making*	13
164	Cutting and punching sheets and bars*	14
165	DESIGNS (Division of Trade-Marks and Designs).	
166	Wells*	38
167	Medicines	2
168	Farriery*	14
169	Fire-extinguishers*	43
170	Motors—Fluid-current*	9
171	Electricity—Generation	26
172	Electricity—Motive power	26
173	Electricity—Conductors	42
174	Electricity—Medical and surgical	43
175	Electricity—General applications	37
176	Electric lamps*	37
177	Electric signaling	42
178	Telegraphy*	16
179	Telephony*	16
180	Motor-vehicles*	10
181	Acoustics*	23
182	Sewerage	43
183	Gas separation*	25
184	Lubrication*	45
185	Motors*	45
186	Store-service*	4
187	Elevators*	4
188	Railway-brakes	46
189	Metallic building structures*	33
190	Baggage*	40
191	Electricity—Transmission to vehicles*	42
192	Clutches	45
193	Conveyers	4
194	Check-controlled apparatus*	40
195	Alcohol	31
196	Mineral oils	31
197	Typewriting-machines*	30
199	Type-casting*	17
200	Electricity—Circuit makers and breakers*	37
202	Charcoal and coke	31
203	Ammonia, water, and wood distillation	31
204	Electrochemistry	3
205	Metal-drawing*	13
206	Special receptacles and packages*	40
207	Plastic metal working*	3
208	Velocipedes	7
210	Water purification	43
211	Store furniture	8
212	Traversing hoists*	4
213	Railway draft appliances	44
214	Material or article handling*	4
215	Bottles and jars	40
216	Label-pasting and paper-hanging*	17
217	Wooden receptacles*	40
218	Button, eyelet, and rivet setting*	11
219	Electric heating and rheostats*	3
220	Metallic receptacles*	40
221	Dispensing	43
222	Hydraulic cement and lime	31
223	Apparel apparatus	24
224	Package and article carriers*	40
225	Dispensing beverages	43
226	Filling and closing portable receptacles*	44
227	Fire-escapes	46
228	Ladders*	46
229	Paper receptacles*	40
230	Air and gas pumps	9
231	Whips and whip apparatus*	11
232	Deposit and collection receptacles*	40
233	Centrifugal-bowl separators*	25
234	Recorders*	23
235	Registers*	23
236	Automatic temperature and humidity regulation*	19
237	Heating systems*	19
238	Railways. Surface track*	34
240	Illumination*	30
241	Garment-supporters	24
242	Winding and reeling*	21
243	Pneumatic despatch*	4
244	Aeronautics*	22
245	Wire fabrics and structure*	14
246	Railway switches and signals*	34
247	Electricity—Conduits	42
248	Supports	8
249	Automatic weighers*	36
250	Radiant energy*	16
251	Valves*	39
252	Substance preparation	6
253	Motors—Fluid*	9
254	Pushing and pulling implements*	4
255	Earth-boring*	38

* See Definitions of Revised Classes.

Number.	Class.	Division.	Number.	Class.	Division.
256	Fences*	1	282	Manifolding*	5
257	Heat exchange*	32	283	Printed matter*	5
258	Railway mail delivery*	4	284	Valved pipe joints or couplings*	39
259	Agitating*	25	285	Pipe joints or couplings*	39
261	Gas and liquid contact apparatus*	32	286	Packed shaft or rod joints*	39
262	Mining, quarrying, and ice harvesting*	38	287	Rod joints or couplings*	29
263	Heating*	3	288	Joint-packings*	39
264	Speed-responsive devices*	18	289	Tying cords or strands*	5
265	Force measuring*	36	290	Prime-mover dynamo plants*	26
266	Metallurgical apparatus*	3	291	Track-sanders*	34
267	Spring devices*	11	292	Closure-fasteners*	20
268	Closure-operators	1	293	Vehicle-fenders*	34
270	Sheet-material associating or folding*	17	294	Handling—Hand and hoist-line implements*	4
271	Sheet feeding or delivering*	17	295	Railway-wheels and axles*	34
272	Flexible-sheet-securing devices	8	296	Land-vehicles. Bodies and tops*	10
273	Continuous-strip feeding	21	297	Thermostats and humidostats*	10
274	Sound recording and reproducing*	23	298	Land-vehicles. Dumping*	10
275	Scattering-unloaders*	1	299	Fluid sprinkling, spraying, and diffusing*	39
276	Type-setting*	17	300	...	...
277	Multiple valves*	39	301	...	...
	...		302	...	...
279	Chucks or sockets*	29	303	...	...
280	Land-vehicles*	10	304	...	...
281	Books, strips, and leaves*	5	305	...	...

* See Definitions of Revised Classes.

CLASSES AND SUBCLASS SCHEDULES.

PRINTS AND LABELS.

Not classified, but arranged in chronological order and preserved for reference in the Record Room.

TRADE-MARKS.

Classification of Merchandise.

1. Raw or partly-prepared materials.
2. Receptacles.
3. Baggage, horse equipments, portfolios, and pocket-books.
4. Abrasive, detergent, and polishing materials.
5. Adhesives.
6. Chemicals, medicines, and pharmaceutical preparations.
7. Cordage.
8. Smokers' articles, not including tobacco products.
9. Explosives, firearms, equipments, and projectiles.
10. Fertilizers.
11. Inks and inking materials.
12. Construction materials.
13. Hardware and plumbing and steam-fitting supplies.
14. Metals and metal castings and forgings.
15. Oils and greases.
16. Paints and painters' materials.
17. Tobacco products.
19. Vehicles, not including engines.
20. Linoleum and oiled cloth.
21. Electrical apparatus, machines, and supplies.
22. Games, toys, and sporting goods.
23. Cutlery, machinery, and tools, and parts thereof.
24. Laundry appliances and machines.
25. Locks and safes.
26. Measuring and scientific appliances.
27. Horological instruments.
28. Jewelry and precious-metal ware.
29. Brooms, brushes, and dusters.
30. Crockery, earthenware, and porcelain.
31. Filters and refrigerators.
32. Furniture and upholstery.
33. Glassware.
34. Heating, lighting, and ventilating apparatus, not including electrical apparatus.
35. Belting, hose, machinery packing, and non-metallic tires.
36. Musical instruments and supplies.
37. Paper and stationery.
38. Prints and publications.
39. Clothing.
40. Fancy goods, furnishings, and notions.
41. Canes, parasols, and umbrellas.
42. Knitted, netted, and textile fabrics.
43. Thread and yarn.
44. Dental, medical, and surgical appliances.
45. Beverages, non-alcoholic.
46. Foods and ingredients of foods.
47. Wines.
48. Malt beverages, extracts, and liquors.
49. Distilled alcoholic liquors.
50. Merchandise not otherwise classified.

CLASSES AND SUBCLASS SCHEDULES.

1.—NAILING AND STAPLING.*

43. **Lath and shingle nailing.**
44. **Glaziers'-point setters.**
Machines—
Book—
7. Staple forming and setting,
8. Staple-setting,
Box—
14. Assembling and nailing,
9. Nail forming and driving,
11. Staple forming and setting—
12. Sheet metal,
10. Nail-driving—
16. Nail-feeding,
15. Tables,
13. Staple-setting,
Shoe—
33. Heel pressing and loading,
34. Heel-plate attaching,
32. Heel-nailing—
35. Cross-head and turret,
36. Cross-head,
37. Laterally-adjustable driver-block,
38. Multiple rotary heel-support,
39. Nail-feeding,
25. Wire inserting and cutting—
26. Screw,
27. Wire-nail forming and driving—
28. Direct wire-feed,
29. Pivoted nail-carrier,
30. Reciprocating nail-carrier,
31. Rotary nail-carrier,
Strip—
22. Nail,
23. Peg,
24. Tack,
24.5. Strips,
20. Staple forming and setting,
19. Nail-driving—
18. Magazine,
21. Staple-setting,
41. Work-supports,
Blind slat and rod—
54. Staple forming and setting,
55. Staple-setting,
40. Packet-looping,
2. Staple forming and setting,
1. Nail-driving—
6. Nail-feeding,
5. Boxes,
4. Staple-setting—
3. Magazine,
45. **Magazine-hammers,**
Implements—
45.5. Fabric-gripping—
45.6. Magazine,
51. Wire-nail forming and driving,
48. Staple forming and setting,
Strip—
52. Nail and peg,
53. Tack,
47. Nail-driving—
46. Magazine,
50. Staple-setting—
49. Magazine.
56. **Packages.**

2.—APPAREL.

Body-garments—
54. Aprons,
34. Armpit-shields,
58. Button-strips,
57. Buttonhole-strips,
59. Chest-protectors,
60. Cloaks,
61. Coats—
62. Collars,
53. Hangers,
63. Shape-retainers,
64. Sleeve-closures,
65. Ventilated,
66. Collarettes,
67. Collars—
68. Cape,
69. Closures,
70. Necktie attachments,
71. Nectie-retainers,
72. Waterproof,
188. Compressors,
189. Compressors and hose-supporters combined,

2.—APPAREL—Continued.

Body-garments—Continued.
76. Corset-stiffeners—
198. Formed wire,
77. Hinged,
78. Reinforced,
73. Corsets—
74. Closures,
75. Shields,
79. Cuffs,
190. Guards—
191. Ball-players' protectors,
80. Lap-robes,
81. Linings,
11. Necktles—
82. Bow,
83. Made up,
84. Shields,
85. Tips,
86. Overcoats,
87. Pads—
88. Shoulder,
41. Shirts—
90. Bosom-supporters,
89. Bosoms,
91. Collar-supporters,
92. Reinforced,
93. Shoulder-braces,
94. Sleeve-adjusters,
95. Sleeve-protectors,
96. Suspender attachments,
97. Vests,
98. **Waists.**

Hand-coverings—
100. Bath,
9. Gloves,
194. Guards—
195. Baseball-gloves,
196. Boxing-gloves,
102. Mittens,
103. Muffs,
104. Shields.

Head-coverings—
106. Caps—
107. Flap,
149. Eye-shields,
192. Guards—
193. Face,
108. Hats—
109. Bands,
110. Brim-bindings,
111. Frames,
186. Hangers,
112. Shades,
32. Sweats,
113. Tips,
114. Ventilated,
33. Ventilators,
115. Head-coolers,
116. Head-screens,
117. Helmets,
118. Hoods,
119. Masks,
120. Muffs—
121. Ear.

Nethergarments—
122. Bifurcated,
123. Bustles,
124. Edge-protectors,
Guards—
197. Leg,
126. Gussets and stays,
127. Hoop-skirts—
128. Clasps,
129. Hoops,
130. Knee-protectors,
131. Napkins,
132. Placket-closures,
15. Pockets—
134. Reinforced,
151. Safety attachments—
152. Pocket-book,
153. Watch,
154. Watch.
135. Skirt-protectors,
136. Skirt-supporters,
42. Skirts—
137. Cycling,
138. Lifters,
139. Riding,
23. Stockings,
140. Suspender attachments,
141. Trunks,
143. Waist-closures,
142. Waistbands.

2.—APPAREL—Continued.

187. **Trimmings—**
146. Edgings,
147. Embroidery—
6. Patterns,
148. Pendants,
16. Plaited,
150. Shoulder-straps and chevrons.
Union-garments—
144. Bifurcated,
145. Skirted.

3.—ARTIFICIAL BODY MEMBERS.*

1. **Miscellaneous.**
2. **Legs—**
3. Socketed,
4. Extensions—
5. Foot,
6. Feet—
7. Resilient—
8. Fluid,
9. Sockets—
10. Slip,
11. Suspenders.
12. **Arms and hands.**
13. **Eyes.**

4.—BATHS AND CLOSETS.

1. **Basins and stands.**
24. **Bath and basin fittings.**
2. **Bathing apparatus—**
25. Bidets,
26. Shower,
27. Tubs.
19. **Bed-pans.**
5. **Closet-cisterns—**
28. Combined supply and flush valves.
30. **Disinfecting apparatus.**
20. **Dry closets—**
31. Magazine,
32. Portable,
33. Receptacles.
35. **Plugs, covers, and strainers.**
36. **Sinks.**
38. **Spittoons—**
39. Covered,
40. Flushing.
12. **Urinals.**
13. **Vapor-baths.**
21. **Water-closet and sewer ventilation.**
18. **Water-closet attachments.**
Water-closets—
16. Plunger,
22. Siphon,
17. Valved,
23. Washout.

5.—BEDS.

Bed-bottoms—
39. Fabric—
62. Binding and fastening,
63. Corner irons and risers,
64. Frames—
65. Sectional.
66. Reinforces,
67. Tighteners—
68. Roller,
69. Screw-operated,
40. Fabrics and springs,
25. Slats,
26. Slats and springs,
29. Springs.
3. **Bedclothing.**
Beds—
1. Air,
5. Camp.
4. **Bedsteads—**
41. Attachments,
42. Braces,
8. Extension,
9. Folding—
60. Berths and bunks—
71. Guards,
12. Invalid—
43. Head-sections,
44. Lifters and conveyers,
45. Vertically-moving frame,

* See Definition of Revised Classes.

5.—BEDS—Continued.
- **Bedsteads**—Continued.
  - 16. Sofa—
    - 46. Extension,
    - 47. Folding back,
    - 48. Folding back and seat,
    - 49. Folding seat,
    - 50. Rotary back and seat,
    - 51. Vertically-moving frame,
  - 17. Table,
  - 18. Wardrobe-bedsteads—
    - 52. Center-folding,
    - 53. End-folding,
    - 54. Extension,
    - 54. Shifting fulcrum,
    - 37. Single frame,
    - 38. Sliding frame.
  - 22. **Clothes-clamps.**
  - 55. **Corner-fastenings.**
  - 56. **Cradles**—
    - 57. Motor-operated.
  - 58. **Cribs**—
    - 59. Attachments.
  - 10. **Hammocks**—
    - 61. Couch,
    - 31. Stretchers,
    - 32. Supports.
  - 13. **Mattresses.**
  - 14. **Mosquito-nets and canopies.**
  - 33. **Pillow-sham holders.**
  - 15. **Pillows.**
  - 21. **Springs.**
  - 70. **Stretchers.**
  - 72. **Vehicle-attached.**

6.—BEE CULTURE.*
- 1. **Beehives**—
  - 2. Frames—
    - 3. Pivoted,
  - 4. **Entrances and exits,**
  - 5. Bee-feeders,
  - 6. Stands.
- **Appliances**—
  - 7. Swarm,
  - 8. Hive-connectors,
  - 9. Queen-bee cells and cages,
  - 10. Comb-frames,
  - 11. Comb foundation,
  - 12. **Implements.**

7.—COMPOUND TOOLS.*
- 1. **Miscellaneous.**
- **Type**—
  - 3. Pliers—
    - 4. Modified handles—
      - 5. Pivoted auxiliary tools,
  - 6. Scissors,
  - 7. Monkey-wrench,
  - 8. Hammer—
    - 9. Fixed form,
  - 10. Miner's candlestick,
  - 11. Pocket-knife,
  - 12. Crowbar,
  - 13. Handsaw,
  - 14. Fork.
  - 15. **Holders**—
    - 16. Pivoted tools.
  - 17. **Integral.**

8.—BLEACHING AND DYEING.
- 16. **Apron vats and stretchers.**
- 2. **Bleaching.**
- 1. **Carbon dyes.**
- 18. **Close vats.**
- 5. **Dyeing processes.**
- 6. **Dyes.**
- 20. **Mercerizing.**
- 13. **Mordants.**
- 19. **Open vats.**
- 17. **Perforated rolls and spray-jets.**
- 7. **Press-dyeing.**
- 8. **Renovating dress.**
- 15. **Steam and bleach chests.**
- 12. **Wool-cleaning.**

9.—BOATS AND BUOYS.*
- 1. **Boats**—
  - 3. Lifeboats—
    - 4. Inclosed,
  - 5. Hunting,
  - 2. Sectional and folding,
  - 6. Hull construction—
    - 6.5 Formers and framers,
  - 7. **Seats and foot-supports.**

9.—BOATS AND BUOYS*—Continued.
- 8. **Buoys**—
  - 8.3. Illuminating,
  - 8.5. Oil-distributers,
  - 9. Wreck-indicating,
  - 10. Safes.
- 11. **Life-rafts**—
  - 12. Ship parts and furniture,
  - 13. Mattress.
- 17. **Life-preservers**—
  - 18. Mechanical propulsion,
  - 19. Self-inflating,
  - 20. Garment.
- 14. **Life-saving apparatus.**
- 21. **Swimming appliances.**
- 15. **Rafting and booming**—
  - 16. Timber-couplings.
- 22. **Hoisting and lowering**—
  - 23. Detaching devices.
- 24. **Oars**—
  - 25. Bow-facing.
- 26. **Rowlocks.**

10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING.*
- 1. **Miscellaneous.**
- 2. **Screw-making**—
  - 3. Head nicking and shaving,
  - 4. Pointing and threading,
  - 5. Head-nicking—
    - 6. Rotary work-holder,
    - 7. Punch and die,
  - 8. Head-shaving,
  - 9. Pointing,
  - 10. Processes.
- 11. **Bolt and rivet making**—
  - 12. Multiple header,
  - 13. Rotary multiple dies,
  - 15. Reciprocating die and header—
    - 16. Toggle-closing dies,
    - 17. Wedge-closing dies,
  - 18. Side-swaging,
  - 14. Cotter-slot punching,
  - 19. Bolt-head finishing—
    - 20. Broaching,
  - 21. Bolt-pointing,
  - 22. Anvils,
  - 23. Safety devices,
  - 24. Dies,
  - 25. Shears,
  - 26. Heading-punches,
  - 27. Processes.
- **Nail-making**—
  - 28. Cut nails—
    - 36. Horseshoe-nails
      - 37. Cutting and finishing,
      - 38. Finishing—
        - 39. Rotary work-holder,
      - 40. Dies,
      - 41. Nail-plates,
      - 42. Processes,
    - 29. Tack-strips,
    - 30. Cutting and heading,
    - 31. Cutting and pointing,
    - 32. Cutting,
    - 35. Dies,
    - 33. Nail-plates,
    - 34. Processes,
  - 43. Wire nails—
    - 44. Making and distributing,
    - 45. String-nails,
    - 46. Spiral shank,
    - 47. Multiple header—
      - 48. Opposite,
      - 49. Reciprocating die and header—
        - 50. Toggle-closing dies,
        - 51. Wedge-closing dies,
      - 52. Rotary work-holder,
      - 53. Dies,
      - 54. Processes,
    - 55. Wrought nails—
      - 56. Spikes—
        - 57. Reciprocating die and header,
        - 58. Roller-die,
        - 59. Pointing,
        - 60. Rotary work-holder,
        - 61. Dies,
        - 62. Blanks,
        - 63. Processes,
      - 64. Horseshoe-nails—
        - 65. Chain feed,
        - 66. Roll-forging—
          - 67. Traveling roll,
        - 68. Side swage,
        - 69. Rotary work-holder,
        - 70. Dies,
        - 71. Processes.

10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING—Continued.
- 72. **Nut and washer making**
  - 73. Lock-washer making,
  - 74. Coiling and forging,
  - 75. Nut finishing and tapping,
  - 76. Forging—
    - 77. Rotary multiple dies,
    - 78. Double-punch drive,
    - 79. Side swage,
    - 80. Side swage and mandrel,
  - 81. Nut-broaching,
  - 82. Nut-milling,
  - 83. Nut-facing—
    - 84. Arbors,
  - 85. Dies,
  - 86. **Processes.**
- **Screw-threading**—
  - 87. Machines, combined,
  - 88. Wooden screws,
  - 89. Machines—
    - 90. Cutting off and threading,
    - 91. Multiple die—
      - 92. Alined,
      - 93. Turret,
    - 94. Collapsing die—
      - 95. Bevel-closing,
      - 96. Cam-closing,
      - 97. Lever-closing—
        - 98. Cone,
        - 99. Toggle,
      - 100. Pivoted chaser-carrier,
    - 101. Chasing-cutter—
      - 102. Rotary,
      - 103. Recessed cylindrical die-block,
    - 104. Screw chaser adjustment,
    - 105. Feeds,
    - 106. Lubricators,
    - 107. Work-holders,
  - Implements—
    - 109. Combined turning and threading,
    - 110. Dies, combined cutting off and threading,
  - 111. Dies—
    - 112. Pipe-trimming,
    - 113. Thread-trimming,
    - 114. Multiple—
      - 115. Rotatable die-block,
    - 116. Divided—
      - 117. Coned screw adjustment,
    - 118. Integral—
      - 119. Adjustments,
    - 120. Radial chaser—
      - 120.5. Taper-threading,
      - 121. Adjustable—
        - 122. Cam-operated,
    - 123. Die-stocks—
      - 124. Ratchet,
      - 125. Hinged,
      - 126. Oilers,
      - 127. Bushings,
  - Tapping—
    - 128. Machines, combined reaming and tapping,
    - 129. Machines—
      - 130. Multiple tap-spindle—
        - 131. Tee-threading,
        - 132. Circular gang,
      - 133. Double tap-grip,
      - 134. Releasable tap,
      - 135. Yielding tap-driver,
      - 136. Reversing mechanisms—
        - 137. Bevel-geared,
        - 138. Spur-geared,
      - 139. Feeds,
    - Implements—
      - 140. Taps, combined,
      - 141. Taps—
        - 142. Adjustable,
        - 143. Collapsible—
          - 144. Cam-core,
          - 145. Wedge-core,
        - 146. Built up,
        - 147. Guides,
      - 148. Tap-wrenches—
        - 149. Axial-screw clamp,
        - 150. Ratchet,
        - 151. Transverse-screw clamp,
  - 152. Swaging—
    - 153. Reciprocating die,
  - 154. Thread-milling.
- 155. **Bolt and nut assembling.**
- 156. **Capping nails and screws**—
  - 157. Rectangular stock-feed,
  - 158. Rotary work-holder,
  - 159. Nicking devices,
  - 160. Dies,
  - 161. Processes.
- 162. **Distributers and feeders**—
  - 163. Agitated chute,
  - 164. Agitated hopper,
  - 165. Inclined chute,

* See Definitions of Revised Classes.

10.—BOLT, NAIL, NUT, RIVET, AND SCREW MAKING—Continued.
Distributers and feeders—Con.
166. Gripping feeding-jaws,
167. Reciprocating lifter,
168. Rotary cylinder,
169. Rotary disk,
170. Rotary hopper,
171. Nail-plate—
172. Oscillating,
173. Reversing—
174. Geared—
175. Rack and pinion,
176. Segmental,
177. Strap-drive,
178. Nippers and nose-pieces.

11.—BOOKS, MAKING.*
1. **Miscellaneous.**
2. **Cover-making.**
3. **Casing in.**
4. **Pamphlet-covering.**
5. **Rounding and backing.**

12.—BOOT AND SHOE MAKING.*
1. **Miscellaneous.**
2. **Lasting and nailing machines—**
3. Hand-guided driver,
4. Multiple drivers,
5. Pivoted jack.
6. **Lasting and sewing machines.**
7. **Lasting-machines—**
8. Girth-stretcher,
9. Nipper-stretcher—
10. Wiper-folder—
11. Multiple work-supports,
11.1. Nippers,
12. Wiper-stretcher—
13. Pronged,
14. End-lasting—
14.1. End clasps,
15. Relasting,
15.1 Delasting,
16. Tack-pullers.
17. **Sole-machines—**
18. Channeling and trimming—
19. Clamped work,
20. Insole-reinforcing,
21. Blank-molding—
22. Edge,
23. Blank-rounding—
24. Strip-feed,
25. Clamped work—
26. Rotary work and cutter,
27. Channeling—
28. Clamped work,
29. Channel-flap layers,
30. Channel-flap turners,
31. Edge-inking,
32. Imitation stitch,
33. Laying and leveling—
34. Roll,
35. Oscillating jack and former,
36. Multiple work-supports—
37. Revoluble,
38. Dies and formers,
39. Lining-appliers,
40. Slitting and grooving,
41. Stitch-separating and indenting.
42. **Heel-machines—**
43. Breasting and nailing,
44. Die-cutting and nailing,
45. Trimming and nailing,
46. Bevel and seat cutting,
47. Breasting,
48. Molding,
49. Beading,
50. Assembling.
51. **Upper-machines—**
52. Assembling,
53. Beading,
54. Edge-notching,
55. Folding,
57. Turning,
58. Skiving,
59. Strap-covering.
60. **Shank-machines.**
61. **Toe and heel stiffener machines—**
62. Skiving—
63. Recessed carrier,
64. Molding—
65. Roll,
66. Separable matrix.
67. **Welt and rand machines—**
67.1. Welt and rand formers,
67.2. Welt-beaters.
68. **Boot-treeing machines.**
69. **Boot-tree holders.**

12.—BOOT AND SHOE MAKING—Con.
70. **Burnishing-machines—**
71. Heel—
72. Oscillating jack—
73. Automatic transverse feed,
74. Oscillating tool-head—
75. Automatic transverse feed.
76. Shank and tread,
77. Rotary tool,
78. Vibrating tool—
79. Hand-guided.
80. **Cement-applying devices.**
82. **Inseam-trimming machines—**
83. Horn-carried knife.
83.5. **Vamp-trimming machines.**
84. **Peg-cutters.**
85. **Sole and heel edge trimmers—**
86. Clamped work—
87. Rotary cutter,
88. Rotary cutter—
89. Multiple cutter-head,
90. Adjustable rand-guide,
91. Rotary cutter-heads—
92. Axially adjustable,
93. Supplemental cutters,
94. Inserted cutters—
95. Angularly adjustable.
96. **Upper-creasing.**
97. **Upper crimping and stretching—**
98. Shank-stretchers,
99. Former and wiper—
100. Belt-carried former,
101. Pivoted former,
102. Formers and clamps.
103. **Tools.**
104. **Burnishing-tools—**
105. Rotary.
106. **Channeling-tools.**
107. **Lasting-tools—**
108. Nailing and stretching,
109. Stretchers and hammers,
110. Stretchers—
111. Multiple grip,
112. Toe,
113. Fly-closers.
Sole and heel edge trimmers—
114. Hand-tools—
115. Double grip.
116. **Boot-trees—**
117. Plunger-expanded,
118. Foot-locks,
119. Foot-pieces,
120. Clasps.
122. **Shoemakers' benches.**
123. **Work-supports—**
124. Expansible holder,
125. Heel-clamping,
126. Last-jacks—
127. Saddle and spindle.
81. **Felt-boot formers.**
128. **Formers—**
129. Pneumatic,
130. Stretchers—
131. Lateral and longitudinal,
132. Lateral.
133. **Lasts—**
134. Adjustable,
135. Separate heel-block—
136. Hinged,
137. Instep-block fasteners—
138. Sliding bolt,
139. Heel plates and sockets,
140. Peg-receivers,
141. Shoe-retainers.
142. **Processes—**
145. Lasting,
146. Miscellaneous parts,
147. Heel.

13.—BRAKES AND GINS.
10. **Delinting cotton-seed.**
23. **Feather-reducers.**
1. **Gin attachments.**
11. **Gin-brushes.**
17. **Gin-condensers.**
12. **Gin-feeders—**
19. Pneumatic.
13. **Gin-ribs.**
20. **Gin-rollers.**
15. **Gin-saw cleaners.**
14. **Gin-saws.**
2. **Hackling-machines.**
3. **Hair-pickers.**
4. **Oakum-machines.**
5. **Processes.**
22. **Rag-cutters.**
6. **Reciprocating brakes.**
7. **Roller-gins.**
21. **Rotary brakes—**
16. Breakers and crushers,
18. Scutchers.
9. **Saw-gins.**

14.—BRIDGES.*
1. **Miscellaneous.**
Combination—
2. Truss and arch.
3. **Truss—**
4. Arrangement—
5. Adjustable,
6. Deck,
7. Cantaliver—
8. Suspension,
9. Bowstring—
10. Adjustable,
11. Intermediate catenary,
12. Both chords curved,
13. Structure,
Details—
14. Connections,
15. End shoes,
16. Expansion devices.
17. **Girder.**
18. **Suspension—**
19. Compound system,
20. Simple system,
21. Towers and anchors,
22. Cables and cable-clamps,
23. Constructive apparatus.
24. **Arch—**
25. Compound,
26. Abutments and anchorages.
27. **Floating—**
28. Adjustable height,
29. Draw—
30. Locking.
31. **Draw—**
32. Swing—
33. Hand or motor operated,
34. Boat-operated,
35. End supports and locking devices,
Bascule—
36. Fixed pivot—
37. Hinged sections,
38. Rack and pinion,
39. Non-pivoted—
40. Rack and pinion,
41. Locking devices,
42. Lift,
43. Horizontally sliding—
44. Boat-operated,
45. Lazy-tongs,
46. Locking devices,
47. Aprons,
48. Buffers,
49. Signals,
50. Gates—
Hand or motor operated—
51. Horizontally swinging,
52. Vertically sliding,
53. Vertically swinging,
Bridge-operated—
Displacement—
54. Horizontally sliding—
55. Locking,
56. Horizontally swinging—
57. Locking,
58. Vertically sliding—
59. Locking,
60. Vertically swinging—
61. Locking,
Shaft rotation—
62. Horizontally sliding—
63. Locking,
64. Horizontally swinging—
65. Locking.
66. Vertically sliding—
67. Locking,
68. Vertically swinging—
69. Locking.
Gangways—
70. Endless conveyer,
71. One end attached,
72. Unattached.
73. **Floors.**
74. **Coverings.**
75. **Piers—**
76. Fenders,
77. Processes.

15.—BRUSHING AND SCRUBBING.
1. **Blacking box and brush cases.**
18. **Blacking-box holders.**
61. **Boot-blacking machines.**
2. **Boot-cleaners.**
4. **Broom-machines.**
Brooms—
19 Broom-heads,
20. Household,
21. Stable and yard,
22. Whisk.

* See Definitions of Revised Classes.

15.—BRUSHING AND SCRUBBING—Continued.

23. **Brush and broom bridles.**
24. **Brush and broom handles.**
25. **Brush-cleaners.**
Brush heads and faces—
26. Bath and flesh brushes,
27. Brush and broom fiber,
28. Dusting-brushes,
29. Hair-brushes,
30. Hat and clothes brushes,
31. Horse-brushes,
32. Metal-cleaning brushes,
33. Metallic tuft-fasteners,
34. Molded backs,
35. Nail-brushes,
36. Paint and whitewash brushes,
37. Rotary brushes—
70. Stippling,
13. Scrubbers,
38. Shaving-brushes,
65. Slate and blackboard cleaners,
39. Toothbrushes.
7. **Brush-machines.**
40. **Brush-trimming machines.**
8. **Carpet-cleaners.**
60. **Carpet-sweepers.**
Chimney-cleaners—
41. Flue and stovepipe,
42. Lamp.
43. **Combined mop heads and wringers.**
44. **Combined scrubbers and mops.**
45. **Dressing and assorting machines.**
Fountain-brushes—
60. Bath and flesh,
46. Blacking,
47. Broom,
48. Hair,
66. Mucilage,
49. Paint,
51. Scrubbers,
50. Shaving,
67. Slate and blackboard cleaners,
52. Tooth,
53. Window-cleaners.
Holders—
54. Brush-head,
55. Convertible mop and brush,
56. Mop-heads.
68. **Lens-cleaners.**
62. **Mats—**
63. Metallic,
64. Wire.
12. **Mop-wringers.**
57. **Mops.**
72. **Powder-puffs.**
73. **Rail-sweepers.**
71. **Razor-cleaners.**
14. **Scrubbing-machines.**
15. **Scrubbing-pails.**
58. **Shoe-blacking stands.**
16. **Shoe-brushes.**
17. **Street-sweepers.**
39. **Window-cleaners.**

16.—BUILDERS' HARDWARE.

174. **Bushings or lining-thimbles—**
176. Collar, pulley, or lever type,
175. Wooden-barrel type.
3. **Carpet-fasteners—**
68. Clasps,
69. Moldings,
70. Strips,
71. Tack-fasteners.
4. **Casters—**
164. Adjustable,
Antifriction-rollers—
73. Loose,
72. Pivoted,
45. Ball—
151. Antifriction-rollers,
152. Pivoted,
165. Leg-elevators,
166. Locked,
76. Pintle-retainers,
74. Spring,
167. Temporary,
75. Wheels.
Door-checks—
77. Buffers.
46. **Door checks and closers—**
86. Liquid,
87. Pneumatic.
47. **Door-closers, gravitating.**

16.—BUILDERS' HARDWARE—Contd.

7. **Door-hangers—**
89. Brackets,
156. Lever,
157. Releasing,
90. Roller-carriage—
91. Ball-bearing,
92. Sliding,
93. Stay-rollers.
9. **Door-springs—**
94. Bow,
95. India-rubber,
96. Lever attachments,
98. Sliding door,
97. Strap and pulley attachments,
99. Torsional—
100. Coiled,
101. Flat,
102. Volute.
177. **Escutcheon-collars.**
158. **Ferrules, rings, and thimbles—**
159. Ferrule-tips,
160. Ring-ferrules.
10. **Handles—**
153. Braces,
103. Coffin,
169. Insulated—
172. Knobs,
173. Loop,
170. Tool,
171. Valve.
11. **Hinges—**
48. Awning-blind,
104. Box,
5. Coach,
105. Concealed,
106. Door—
107. Butt,
108. Strap,
109. Flush,
49. Gate,
163. Gravitating,
111. Lock, frictional,
110. Lock, positive,
112. Longitudinally adjustable,
14. Safe,
25. Spring,
27. Table,
113. Vertically adjustable.
Sash-balances—
114. Friction,
115. Spring—
148. Drum and cord,
149. Friction-roller,
150. Gear and rack,
116. Weight.
16. **Sash-cord fasteners.**
17. **Sash-cord guides.**
20. **Sash-weights.**
26. **Stair-rods and securers—**
139. Buttons,
140. Fasteners,
141. Rods.
Transom-lifters—
142. Pivots.
29. **Window-bead fasteners.**

17.—BUTCHERING.

8. **Butchers' stalls.**
9. **Chopping-blocks.**
Dressing—
10. Fish-dressing machines,
11. Hog-scraping machines,
12. Intestine-cleaners,
13. Skinning.
14. **Meat-clamps.**
Meat-cutters—
16. Cracklings,
17. Crank mechanism,
18. Cube,
19. Cylinder and block,
20. Cylinder and concave,
21. Double cylinder,
22. Hand,
23. Rocking knife,
24. Slicers,
25. Trip mechanism.
Meat-tenderers—
27. Hand,
28. Pivoted head,
29. Rotary.
31. **Oyster-openers.**
6. **Sausage-machines.**
7. **Scalding and singeing.**
30. **Slaughtering, elevating, and suspending.**

18.—PLASTICS.*

1. **Miscellaneous.**
2. **Vulcanizable gums, apparatus.**
3. **Pyroxylin, apparatus.**
3.5. **Puttying devices.**
4. **Molding plants.**
5. **Molding devices—**
5.3. Sound-record—
5.5. Casting or dipping,
5.6. Fluid-pressure,
6. Heating and vulcanizing—
7. Pots,
8. Filament-forming,
9. Rolling—
10. Sheets,
11. Compound,
12. Die-expressing—
13. Compound,
14. Tube and hollow,
15. Film-spreading,
24. Dipping—
25. Capsule-machines,
26. Casting—
27. Candles,
28. Crayons,
29. Rollers,
16. Presses—
17. Heating and vulcanizing—
18. Tire-repairing,
19. Sheet-shaping,
20. Rotary mold-support—
21. Peripheral,
22. Reciprocating mold,
23. Stationary mold,
30. Chargers,
31. Mold wiping and coating,
32. Flasks and clamps—
33. Dental,
34. Molds—
35. Sheet-shaping,
36. Blank-covering and filling—
37. Lacing hooks and studs,
38. Heating and vulcanizing,
39. Casting—
40. Soap,
41. Dipping,
42. Two and three part,
43. Clamping,
44. Dies and matrices,
45. Cores—
46. Boot trees and lasts,
47. Materials.
Processes—
47.5. Combined,
48. Miscellaneous,
48.3. Sound-record—
48.4. Facing or uniting,
48.5. Casting or dipping,
48.6. Fluid-pressure,
48.8. Imitating marble,
49. Vulcanizable gums—
50. Caoutchouc,
51. Pyroxylin,
52. Restoring caoutchouc,
53. Vulcanizing caoutchouc,
54. Filament-forming,
55. Molding—
56. Sheets,
57. Film-spreading,
58. Casting and dipping,
59. Uniting,
60. Facing type—
61. Design.

19.—CARDING.

16. **Balling-heads.**
1. **Burring.**
2. **Card-clothing.**
3. **Carding.**
5. **Collers.**
17. **Comb dabbing mechanism.**
6. **Combing—**
24. Circle-combs.
26. **Condensing-guides.**
12. **Covering yarn.**
22. **Cylinders and rollers.**
28. **Drawing or feeding—**
29. Evening,
31. Roll-clearers,
35. Rollers,
32. Roll-stands—
33. Pressure devices—
34. Pressure-relieving,
30. Thread or roll traverse.
18. **Dust-trunks.**
7. **Feeding cards.**
13. **Fleece dividers and condensers.**
14. **Fleece-removers.**
8. **Lapping.**
19. **Opener-beaters.**

*See Definitions of Revised Classes.

19.—CARDING—Continued.
- 20. **Opener evening mechanism.**
- 9. **Pickers.**
- 21. **Screens.**
- 25. **Stopping.**
- 15. **Stripping mechanism.**
- 23. **Traveling-flat cards.**
- 27. **Twisting-heads.**
- 10. **Wadding.**
- 11. **Wool-oiling.**

20.—WOODEN BUILDINGS.*
- 0.5. **Miscellaneous.**
- 1. **Buildings—**
  - 1.11. Apartments,
  - 1.12. Auditoriums,
  - 1.13. Storage,
  - 1.2. Bins—
  - 1.4. Silos—
  - 1.41. Combined extension and roof,
  - 1.42. Chute,
  - 2. Portable houses—
  - 3. Voting-booths,
  - 3.5. Telephone-booths,
  - 1.1. Plans.
- **Scaffolds—**
  - 81. Miscellaneous,
  - 81.5. Elevating—
  - 81.6. Swinging,
  - 81.7. Trestles,
  - 87. Window,
  - 82. Swinging,
  - 83. Trestles,
  - 84. Brackets—
  - 86. Shingling,
  - 85. Ladder,
  - 88. Binders.
- 99. **Poles and posts—**
  - 100. Protected.
- 10. **Stairs.**
- 79. **Stair-covers.**
- 4. **Wall construction.**
- 5. **Weather-boarding.**
- 13. **Lathing—**
  - 14. Lath-holders.
- **Floors—**
  - 6. Miscellaneous,
  - 7. Composite,
  - 8. Interlocking,
  - 9. Joist-bridging.
- 78. **Slatted floor-covering.**
- **Doors—**
  - 16. Miscellaneous,
  - **Car—**
    - 21. Miscellaneous,
    - Grain—
      - 27. Miscellaneous,
      - 34. Vertical slide and swing,
      - 28. Horizontal swing,
      - 29. Pivoted side tilt,
      - 30. Removable,
      - 31. Side slide,
      - 32. Vertical slide—
      - 33. Pivoted guide,
    - Sliding—
      - 22. Miscellaneous,
      - 23. Lateral movement—
      - 24. Link-support,
      - 25. Guide-closures,
      - 26. Cleats,
    - 37. Door construction,
    - 39. Wickets,
    - 17. Oppositely hinged,
    - 18. Rotating,
    - Sliding—
      - 19. Miscellaneous,
      - 20. Jointed,
    - 35. Door construction—
      - 36. Removable panel,
    - 38. Braces.
- **Windows—**
  - 40. Miscellaneous,
  - 55. Storm,
  - 40.5. Condensation-preventing,
  - Sliding and swinging sash—
    - 42. Miscellaneous,
    - 43. Cord-fastener pivot,
    - 44. Guide-rod pivot,
    - Horizontally-pivoted frame—
      - 45. Sliding sash,
    - Separable hinge—
      - 46. Side swing,
      - 47. Vertical swing,
    - Sliding frame—
      - 48. Vertically-pivoted sash,
    - Sliding stile—
      - 49. Horizontally-pivoted sash,
      - 50. Vertically-pivoted sash,
    - Vertically-pivoted frame—
      - 51. Sliding sash,

20.—WOODEN BUILDINGS—Continued.
- **Windows**—Continued.
  - 52. Sliding sash—
    - 52.1. Pocketed,
    - 52.2. Removable—
    - 52.3. Supplemental stile,
    - 52.4. Joint-closures—
    - 52.5. Positive—
    - 52.6. Wedge,
  - 53. Swinging sash,
  - Sashes—
    - 54. Cushioned,
  - 56. **Sash construction—**
    - 56.1. Removable panel,
    - 56.2. Sliding pane,
    - 56.3. Corner-posts and mullions,
    - 56.4. Pane-fasteners,
    - 56.5. Parallel panes.
  - 57. **Window-cranes.**
- **Shutters—**
  - 58. Miscellaneous,
  - 59. Awning,
  - 61. Sliding,
  - 60. Registering slide,
  - Slats—
    - 62. Pivoted,
    - 63. Fixed.
- 11. **Door and window frames—**
  - 12. Movable jambs.
- 64. **Thresholds.**
- 70. **Door and window troughs.**
- 71. **Door and window guards—**
  - 72. Body-attached.
- **Weather-strips—**
  - 65. Hinged—
    - 66. Sills,
    - 67. Spring,
  - 68. Sliding,
  - 69. Packing.
- 73. **Mantels.**
- 97. **Wooden columns—**
  - 98. Caps and bases.
- 15. **Panels and wainscoting.**
- 76. **Corner-shields.**
- 77. **Ceiling-centerpieces.**
- 74. **Moldings.**
- 94. **Joist connections.**
- 95. **Framing-sockets.**
- 75. **Mosaics and inlaying.**
- 93. **Nail-hole plugs.**
- 91. **Compound lumber.**
- 89. **Veneering.**
- 92. **Splices and joints.**

21.—CARRIAGES AND WAGONS.
- 2. **Axle-boxes.**
- 4. **Axle-skeins.**
- 5. **Axles—**
  - 188. Cushioned lateral thrust,
  - 153. Rotary shaft or spindle,
  - 187. Spring-mounted skein or spindle.
- 10. **Brake-levers.**
- 8. **Brakes—**
  - 9. Automatic,
  - 82. Shoes.
- **Children's carriages—**
  - 84. Stops.
- 76. **Draft-equalizers.**
- 27. **Hold-backs.**
- 75. **Horse-detachers.**
- 30. **Hub-attaching devices.**
- 89. **Hub-caps.**
- 31. **Hubs.**
- 189. **Miscellaneous draft appliances.**
- 77. **Neck-yokes.**
- 92. **Pole-tips.**
- 36. **Poles and shafts—**
  - 91. Convertible.
- 40. **Sand-bands.**
- 46. **Sled-brakes.**
- **Sleds—**
  - 95. Shifting thills.
- **Springs—**
  - 105. Braces and equalizers.
- 57. **Thill-couplings—**
  - 106. Antirattlers,
  - 107. Jacks.
- 108. **Thill-supports.**
- 63. **Tongue-supports.**
- 149. **Wheel substitutes—**
  - 150. Portable track—
    - 151. Annular,
    - 228. Reciprocating horizontal track,
    - 227. Wheel-carried track,
  - 152. Steppers—
    - 229. Radial rotating legs,
    - 230. Wheels with rim-carried feet.

21.—CARRIAGES AND WAGONS—Con.
- 69. **Wheels—**
  - 165. Fellies—
    - 178. Joints,
    - 170. Metallic,
    - 166. Split, adjustable—
      - 167. Screw adjustment—
      - 168. Right and left threaded bolt,
      - 169. Wedge adjustment,
    - 171. Spoke connections—
      - 172. Adjustable spoke—
      - 173. Screw adjustment,
      - 177. Combined felly-joint,
      - 174. Spoke-caps—
      - 175. Combined felly-joint.
      - 176. Side extensions,
  - 155. Non-resilient tires—
    - 162. Fastening devices—
      - 163. Combined felly-joint,
      - 164. Interposed clips or wedges,
    - 160. Rail-climbing devices,
    - 156. Split, adjustable—
      - 157. Screw adjustment—
      - 158. Right and left threaded bolt,
      - 159. Wedge adjustment,
    - 161. Supplemental tires,
  - 179. Resilient-tire rims—
    - 180. Metallic,
    - 181. Spoke connections,
  - 207. Traction—
    - 217. Cylindrical rim, projecting spurs,
    - 215. Detachable spurs,
    - 214. Detachable traction-tire,
    - 208. Movable spurs—
    - 209. Adjustable—
    - 210. Alternate projection and retraction,
    - 211. Individually adjusted,
    - 212. Spring-projected,
    - 216. Parallel rims, connecting-spurs,
    - 218. Recessed rim,
    - 213. Supplemental rim or wheel.
  - 79. **Whiffletree-hooks.**
  - 78. **Whiffletrees.**

22.—METAL-FOUNDING.*
- 1. **Miscellaneous.**
- 2. **Stereotype - casting apparatus—**
  - 3. Combined machines,
  - 4. Heating or cooling mold,
  - 5. Molds,
  - 5.5 Matrices.
- 9. **Molding apparatus—**
  - 10. Core-making—
    - 11. Die-expressing,
    - 12. Rotating core-bar,
    - 13. Core-boxes,
  - 14. Screw-threads,
  - 15. Curved molds,
  - 16. Pipes vertical—
  - 17. Compacting pattern—
    - 18. Rotating—
    - 19. Bead-forming,
  - 20. Plants,
  - 21. Rotating table,
  - 22. Rolling pattern,
  - 23. Segmental pattern,
  - 24. Sweeping or cutting,
  - 25. Packing and drawing—
    - 26. Mold moving against press-head,
    - 27. Parting surface compression—
    - 28. Stripping,
    - 29. Jarring mold and stripping,
    - 30. Pressing and vibrating pattern,
  - 31. Assembling mold parts,
  - 32. Inverting flask—
    - 33. Rock-over,
  - 34. Removing mold,
  - 35. Charging flask—
    - 36. Under pressure,
  - 37. Core-setting,
  - 38. Sprue-molding,
  - 39. Venting,
  - 40. Packing sand—
    - 41. Multiple rammer,
    - 42. Presses—
      - 43. Swinging press-head—
      - 44. Reciprocating mold.
    - 45. Jarring,
    - 46. Press-heads and plungers,

*See Definitions of Revised Classes.

22.—METAL-FOUNDING—Continued.
Molding apparatus—Continued.
47. Drawing pattern—
48. Mold-lifting—
49. Reciprocating pattern,
50. Stripping—
51. Compound stripping-plate,
52. Parallel motion,
53. Curvilinear draw,
54. Stool,
55. Lever and link,
56. Vibrating.
57. **Casting apparatus—**
58. Composite castings and joints—
59. Fence and net leading,
60. Ingots,
61. Pigs—
62. Endless chain,
63. Rotating table,
64. Plants,
65. Centrifugal,
66. Tandem,
67. Compression—
68. Charging under pressure—
69. Pneumatic,
70. Melting-pot and pump—
71. Heated,
72. Pneumatic,
73. Vacuum,
74. Mold-heaters,
75. Moving mold—
76. Endless chain,
77. Rotating table,
78. Reciprocating,
79. Metal holding and pouring—
80. Pot-charging,
81. Ladles—
82. Carriers and manipulators,
83. Skimming,
84. Bottom-pour—
85. Internal stopper,
86. Hand.
87. **Mold and core drying apparatus.**
88. **Mold coating and lining apparatus.**
89. **Mold-material-treating apparatus.**
90. **Mold and flask supports—**
91. Tilting.
92. **Mold-separating devices—**
93. Drawing core.
94. **Casting-ejectors—**
95. Ingot-strippers.
96. **Flasks—**
97. Dental plate,
98. Vertical pipe,
99. Multipart,
100. Extensible,
101. Pattern, core, or insert holding—
102. Sash-weight,
103. Chill-holding—
104. Wheel,
105. Swinging cope,
106. Separable sides or ends—
107. Snap-flasks,
108. Gate extension,
109. Clamping,
110. Guides,
110. Sand-retaining devices.
112. **Mold jackets and weights.**
113. **Molds—**
114. Finger-ring,
115. Split castings,
116. Composite castings and joints—
117. Pipe-joints—
118. External bands,
119. Expanding clamps,
120. Wheels,
121. Ingots.
122. Non-metallic inserts,
123. Lining articles,
124. Sand molds—
125. Insert-clamps,
126. Sand and metal—
127. Circular chills—
128. Wheel,
129. Sand—
130. Multiple,
131. With cores—
132. Circumferential,
133. Vertical,
134. Sprue, gate, runner, and riser,
135. Vents,
136. Metal—
137. Chains,
138. Wheels,
139. Ingots and pigs—
140. Hollow,
141. Bottom-pour,
142. Multiple,
143. Horizontal,
144. Double-walled,

22.—METAL-FOUNDING—Continued.
Molds—Continued.
Metal—Continued.
Ingots and pigs—Continued.
145. Separable sides—
146. Clamped,
147. Sink-heads and feeders,
148. Stoppers,
149. Multiple,
150. Sprue-separating,
151. Separable cores—
152. Single,
153. Two-part,
154. Ejecting,
155. Runner,
156. Clamping.
157. **Pattern and match plates.**
158. **Patterns—**
159. Pipe,
160. Insert, core, or chill supporting,
161. Core-forming,
162. Sprue, gate, and runner,
163. Undercutting,
163.5. Coatings,
164. Composition and composite.
165. **Cores—**
166. Pipe,
167. Chill or insert holding,
168. Metal—
169. S-trap,
170. Contracting,
171. Vents,
172. Core-bars—
173. Collapsible.
174. **Chills—**
175. Plow—
176. Vents,
177. Heated or cooled,
178. Circular—
179. Gear-teeth,
180. Rolls,
181. Non-chilling rings,
182. Contracting,
183. Vents.
184. **Core chaplets and supports.**
185. **Molding-tools—**
186. Pattern-lifters and draw-plates,
187. Rammers.
188. **Mold and core materials—**
189. Coatings and linings.
190. **Processes—**
191. Pattern-plate and match making,
192. Treating-mold,
193. Molding—
194. Core-making,
195. Pattern-making,
196. Destroying pattern,
197. Green sand—
198. Mold and core,
199. Drawing pattern,
200. Casting—
201. Composite article—
202. Partly non-metallic,
203. One metal solid—
204. Heated—
205. By original heat of casting,
206. Iron and steel—
207. Compression,
208. Tandem,
209. Introducing metal—
210. By immersion,
211. Annealing in mold,
212. Cooling—
213. Chilling iron,
214. Treating with gases,
215. Treating with solids,
216. Preventing piping by manipulation,
217. Preparation of mold materials.
218. **Ingots—**
219. Composite.

23.—CHEMICALS.
1. **Acids, mineral.**
21. **Ammonia.**
3. **Apparatus—**
31. Leaching.
24. **Carbon compounds.**
28. **Catalytics.**
5. **Fire-extinguishing compounds.**
10. **Metalloids.**
30. **Miscellaneous.**
11. **Packing chemicals—**
29. Absorbed gas.
13. **Salines.**
22. **Soda and potash.**
27. **Vinegar.**

24.—BUCKLES, BUTTONS, CLASPS, ETC.*
1. **Miscellaneous.**
2. **Album-fasteners.**
3. **Article-holders—**
4. Chatelaine safety-hooks,
5. Flower—
6. Pin-attached,
7. Napkin—
8. Hook,
9. Neck-inclosing,
10. Pencil—
11. Clasp-attached,
12. Pin-attached,
15. Sleeve,
13. Pin-attached.
16. **Bale and package ties—**
17. Packet-holders—
18. Cord,
19. Strap-tighteners,
20. Metal bands—
21. Separate connections—
22. One-piece—
23. Sheet-metal,
24. Pivoted parts,
25. Wedging parts,
26. Wire,
27. Wire—
28. Separate connections—
29. Wire,
30. Wooden bands.
30.5. **Bag-fasteners.**
31. **Belt-fasteners—**
32. Tighteners,
33. Hinged,
34. Lacing,
35. One-piece—
36. Deflecting-prong,
37. Screw-clamp,
38. Splices,
39. Wire.
40. **Buttoners.**
41. **Cuff-holders—**
42. Adjustable,
43. Clasp-button,
44. Clasp-clasp,
45. Clasp-hook,
46. Clasp-pin,
47. Pin-button,
48. Pin-fastener.
49. **Necktie-fasteners—**
50. Bands—
51. End-securing pin,
52. Gripping,
53. Depressors—
54. Button-engaging,
55. Pin or spur,
56. Button-engaging—
57. Adjustable,
58. Cord-loop,
59. Pivoted or sliding jaw,
60. Pin-attached,
61. Collar-button combined—
62. Clasp-attached,
63. Pin-attached,
64. Separable fastener,
65. Tie-attached hook.
66. **Paper-clips.**
67. **Paper-fasteners.**
68. **Strap-tighteners—**
69. Cam-lever and loop—
70. Step-adjusted,
71. Strap-attached folding lever,
71.1. Midline—
71.2. Winders—
71.3. One-piece.
72. **Trouser guards and straps.**
73. **Fasteners combined—**
74. Buckle-buckle—
75. Separably connected,
76. Buckle-pin,
77. Buckle separable—
78. Pivoted-lever buckle,
79. Clasp-buckle,
80. Clasp-button,
81. Clasp-clasp—
82. Pin-attached,
83. Separably connected,
84. Clasp-hook,
85. Clasp-pin,
86. Pin-hook,
87. Pin-pin—
88. Separably connected.
89. **Interchangeable button-loop and pin.**
90. **Buttons and fasteners—**
90.5. Loss-preventing devices,
91. Adjustable,
92. Cloth shanks and covers,
93. Multiple attachment,
94. Deflecting prong or rivet—
95. Anvil or plate,
96. Integral,

*See Definitions of Revised Classes.

24.—BUCKLES, BUTTONS, CLASPS, ETC.—Continued.

Buttons and fasteners—Contd.
- 97. Hinged leaf—
- 98. Axially rotating,
- 99. Double,
- 100. Sliding,
- 100.5. Sliding bar,
- 102. Link,
- 101. Integral or rigid stud,
- 103. Pin-attached,
- 104. Separable—
- 105. Screw,
- 106. Spring—
- 107. Resilient head,
- 108. Resilient socket,
- 109. Rotating head,
- 110. With operating devices,
- 111. Separate thread-bar,
- 112. Spiral fastener,
- 113. Covers,
- 114. Pads.
- 114.5. **Strap or cable buttons.**
- 115. **Cord and rope holders**—
- 116. Chain,
- 117. Lacing-terminals—
- 118. Friction-disk,
- 119. Knot-inclosing,
- 120. Pivoted jaw,
- 121. Resilient clip,
- 122. Wire,
- 123. Couplings and sockets—
- 124. Nut-clamp,
- 125. Screw-clamp,
- 126. Sliding part or wedge,
- 127. Friction-disk,
- 128. Knot-engaging,
- 129. One-piece—
- 130. Wedge-slot,
- 131. Wire,
- 132. Pivoted part—
- 133. Lever-tension,
- 134. Cam-lever,
- 135. Screw-clamp,
- 136. Sliding part or wedge.
- 137. **Clothespins**—
- 138. Kerf,
- 139. Wire.
- 140. **Lacing devices**—
- 141. Eyelets—
- 142. Plastic head,
- 143. Laces and tips,
- 144. Studs—
- 149. Roller,
- 145. Closed loop,
- 146. Hook—
- 147. Moving part,
- 148. Plastic head,
- 150. **Pin-fasteners**—
- 151. Armpit-shields,
- 152. Upholstering,
- 153. Paper—
- 154. Suspending devices,
- 156. Guards—
- 157. Pivoted,
- 158. Sliding,
- 159. Wire,
- 155. Loss-preventing devices,
- 160. Pivoted,
- 161. Resilient,
- 162. Sliding.
- 163. **Buckles**—
- 164. Harness—
- 165. Combined buckles and snap-hooks,
- 166. Lock—
- 167. Key,
- 168. Clamping—
- 169. One-piece,
- 170. Pivoted part or lever,
- 171. Sliding part or wedge,
- 172. Cross-bails—
- 173. Pivoted stud-plate,
- 174. Rigid stud,
- Penetrating tongue—
- 175. Guarded,
- 176. One-piece,
- 177. Multiple,
- 178. Pivoted—
- 179. Lever-actuated,
- 180. Stud,
- 181. Sliding part or wedge,
- 182. Strap-loops and attaching devices,
- 183. Loop-shields,
- 184. Garment-shielded,
- Combined pressure-bar and guard—
- 185. Hook-attached,
- Penetrating prong—
- 186. One-piece
- 187. Hook-attached,
- 188. Pivoted—
- 189. Hook-attached,

24.—BUCKLES, BUTTONS, CLASPS, ETC.—Continued.

Buckles—Continued.
- Penetrating prong—Continued.
- 190. Slide,
- 191. Pivoted lever—
- 192. Hook-attached,
- 193. Looped strap,
- 194. Sliding part or wedge—
- 195. Hook-attached,
- 196. Looped strap,
- 197. Looped strap,
- 198. One-piece—
- 199. Hook-attached,
- 200. Looped strap.
- 201. **Separable fasteners**—
- 202. Buttonhole-protectors,
- 203. Multiple—
- 204. Integrally connected,
- 205. Multiple-operated,
- 206. Step-adjusting,
- 207. Runway-engaging,
- Head and socket—
- 208. Axial closures—
- 209. Link-button,
- 210. Hinged cap-plate,
- 211. Pivoted or sliding lock.
- 212. Pivoted head,
- 213. Resilient head—
- 214. Rigid socket,
- 215. Wire,
- 216. Resilient socket—
- 217. Rigid head,
- 218. Wire,
- 219. Rigid head,
- 220. Rigid socket,
- 221. Rotating head,
- 222. Lateral closures—
- 223. Auxiliary locking devices,
- 224. Resilient,
- 225. Hook and eye—
- 226. Sheet metal—
- 227. Metallic attachment,
- 228. Wire—
- 229. Metallic attachment,
- 230. Lateral sliding.
- 231. **Snap-hooks**—
- 240. Watch-chain attaching,
- 241. Locking devices—
- 242. Tension-operated,
- 232. Pivoted—
- 233. Spring—
- 234. Coil—
- 235. Axial,
- 236. Resilient—
- 237. One-piece,
- 238. Sliding—
- 239. Spring.
- 243. **Clasps**—
- 244. Ball or roll,
- 245. Button and loop—
- 246. Pivoted or resilient arms,
- 247. Slide,
- 248. Pivoted—
- 249. Broom or handle,
- 250. Separate lock-lever,
- 251. Sliding lock,
- 252. Spring—
- 253. Axial coil,
- 254. Broom or handle,
- 255. Resilient—
- 256. Circular,
- 257. Broom or handle,
- 258. Separate lock-lever,
- 260. Sliding lock,
- 259. Sheet metal,
- 261. Wire,
- 262. Protected jaws,
- 263. Sliding jaw,
- 264. Wedge-slot.
- 265. **Strap-end-attaching devices.**
- 266. **Draw-strings.**
- 267. **Pivoted edge stays.**

25.—PLASTIC BLOCK AND EARTHENWARE APPARATUS.*
- 1. **Miscellaneous.**
- 2. **Brickmaking plants.**
- 3. **Electrical-fixture machines.**
- 4. **Knob-machines.**
- 5. **Playing-marble machines.**
- 6. **Tobacco-pipe machines.**
- 7. **Soap-molding devices**—
- 8. Die-expressing,
- 9. Rotary mold,
- 10. Stationary mold.
- 21. **Roller-forming.**

25.—PLASTIC BLOCKS AND EARTHENWARE APPARATUS—Con.
- 22. **Pottery-machines**—
- 23. Fluid-operated,
- 24. Jiggers—
- 25. Irregular form,
- 26. Rotary former,
- 27. Presses—
- 28. Bottom ejectors,
- 29. Casting.
- 30. **Pipe-machines.**
- 31. Fluid-operated,
- 32. In situ,
- 33. Multitubular—
- 34. Perforators,
- 35. Perforating-former,
- 36. Compacting-former,
- 37. Tamper,
- 38. Plastic lining and coating,
- 39. Socket-formers,
- 40. Turners.
- 41. **Block-molding machines**—
- 42. Flat tile,
- 43. Roofing-tile,
- 44. Undercutting.
- 45. **Block-presses**—
- Portable mold—
- Movable support—
- 46. Toward feed,
- 47. Transverse to feed,
- 48. Supported in race—
- 49. Plunger—
- 50. Lever,
- 51. Pitman,
- 52. Rack and pinion,
- 53. Mold-pushers,
- 54. Reciprocating mold—
- 55. Fluid-operated,
- Plunger—
- 56. In line of mold travel—
- 57. Cam,
- 58. Drop,
- 59. Lever,
- 60. Transverse to mold travel—
- 61. Cam,
- 62. Lever,
- Rotary mold—
- 63. Fluid-operated,
- Facial—
- 64. Continuous—
- 65. Plunger, cam,
- 66. Intermittent—
- 67. Opposed plunger—
- 68. Lever,
- 69. Single-surface plunger—
- 70. Cam,
- 71. Drop,
- 72. Lever,
- 73. Pitman,
- 74. Toggle,
- Peripheral—
- 75. Continuous—
- 76. Opposed mold-wheel—
- 77. Mating,
- 78. Plunger, cam,
- 79. Pressure-roller,
- 80. Intermittent—
- 81. Plunger, cam,
- 82. Plunger, lever,
- Stationary mold—
- 83. Single-surface plunger—
- 84. Fluid-operated,
- 85. Cam,
- 86. Drop,
- 87. Lever,
- 88. Pitman,
- 89. Toggle,
- 90. Opposed plunger—
- 91. Fluid-operated,
- 92. Cam,
- 93. Cam and lever,
- 94. Cam and pitman
- 95. Lever,
- 96. Pitman,
- 97. Toggle,
- 98. Toggle and connecting-bar,
- Endless chain of molds—
- 99. Continuous travel.
- 100. Intermittent travel,
- 101. Expanding mold,
- 102. Plungers,
- 103. Chargers,
- 104. Strikes and trimmers.
- 11. **Die-expressing**—
- 13. Pottery,
- 12. Detached block,
- 14. Screw-ejector,
- 15. Plunger-ejector—
- 16. Fluid-operated,
- 17. Dies—
- 20. Perforating and ornamenting,
- 18. Liquid-lubricated,
- 19. Steam-lubricated.

*See Definitions of Revised Classes.

25.—PLASTIC BLOCK AND EARTHENWARE APPARATUS—Con.
- 105. **Cutters**—
- 106. Soap,
- 107. Reciprocating—
- 108. Horizontally,
- Rotating—
- 109. Longitudinal axis,
- 110. Transverse axis,
- 111. Oscillating,
- 112. Stationary,
- 113. Tables,
- 114. Cleaners.
- 115. **Sanders**—
- 116. Mold—
- 117. Rotary drum.
- 118. **Molds**—
- 119. Block—
- 120. Ejectors,
- 121. Expanding and separable,
- 122. Linings,
- 123. Ornamental,
- 124. Cistern,
- 125. Fence,
- 126. Pipe—
- 127. Expanding and separable,
- 128. Cores,
- 129. Pottery,
- 130. Sarcophagi and tank,
- 131. Wall,
- 131.5. Centering—
- 131.6. Wheel-mounted.
- 132. **Kilns**—
- 133. Indurating,
- 134. Continuous—
- 135. Separate kiln,
- 136. Perforated floor,
- 137. Perforated partition,
- 138. Temporary partition,
- 139. Common flue,
- 140. Combined up and down draft—
- 141. Reversible,
- 142. Horizontally-traveling material.
- 143. Vertically-traveling material,
- 144. Muffle,
- 145. Downdraft—
- 146. Muffle-bottom,
- 147. Updraft,
- 148. Forced draft,
- 149. Fluid fuel,
- 150. Steam combustion,
- 151. Furnaces—
- 152. Grates,
- 153. Saggers.
- **Processes**—
- 154. Reinforcing and finishing,
- 155. Concrete-block type,
- 156. Clay type—
- 157. Firing—
- 158. Road-ballast.

26.—CLOTH-FINISHING.
- 10. **Beetling.**
- 11. **Calendering.**
- 9. **Cutting lace and looped fabrics.**
- 2. **Finishing.**
- 12. **Finishing cut-pile fabrics.**
- 18. **Guiding.**
- 4. **Napping**—
- 19. Planetary machines.
- 5. **Pressing.**
- 6. **Shearing.**
- 14. **Singeing.**
- 7. **Sponging.**
- 8. **Stretching.**
- 16. **Stretching and drying.**

27.—UNDERTAKING.*
- 1. **Miscellaneous.**
- 2. **Coffins**—
- 3. Composite,
- 4. Foldable sections,
- 5. Metal and wood,
- 6. Metallic,
- 7. Plastic material,
- 8. Glass,
- 9. Canopy,
- 10. Corner structures,
- 11. Corpse-preserving,
- 12. Corpse-raising devices,
- 13. Headrests,
- 14. Lids—
- 15. Sliding panel,
- 16. Swinging,
- 17. Joints,
- 18. Supports,
- 19. Linings and coverings,
- 20. Shields.

27.—UNDERTAKING—Continued.
- 21. **Embalming**—
- 22. Processes,
- 23. Apparatus,
- 24. Injectors and ejectors.
- 25. **Chin-supports.**
- 26. **Casket grave-rests.**
- 27. **Casket-carriers.**
- 28. **Corpse-carriers.**
- 29. **Grave-linings.**
- 30. **Grave-coverings.**
- 31. **Life-signals.**
- 32. **Lowering devices**—
- 33. Hand-straps—
- 34. Releasers.
- 35. **Portable coffin-casings.**

28.—CORDAGE.
- 2. **Banding.**
- 4. **Braiding.**
- 24. **Braiding-carriers.**
- 25. **Braids.**
- 21. **Cord and rope machines.**
- 5. **Cords and ropes.**
- 6. **Covering cord.**
- 34. **Doubling**—
- 35. Irregular feed.
- 7. **Finishing yarn and thread.**
- 27. **Fuse and packing machines.**
- 29. **Lease-formers.**
- 9. **Packaging braid and yarn.**
- 11. **Separating rope.**
- 13. **Tassels.**
- 14. **Warping.**
- 30. **Warping-reels.**
- 31. **Warping stop-motions.**
- 20. **Yarn guides and clearers.**

29.—METAL-WORKING.*
- 1. **Miscellaneous.**
- **Special work**—
- 1.1. Arms-making—
- 1.11. Ordnance,
- 1.2. Projectile-making—
- 1.21. Hollow,
- 1.22. Bullets or shot—
- 1.23. Jacketed or composite,
- 1.3. Cartridge-case making—
- 1.31. Heading,
- 1.32. Trimming,
- 2. Battery-grid making,
- 3. Buckle-making,
- 4. Button-fastener making,
- 4.5. Comminuting metal,
- 5. Cotter-pin making,
- 6. Crank-shaft making,
- 7. Eyebolt and hook making,
- 8. Finger-ring forming and sizing,
- 9. Fishhook-making,
- 10. Gem and jewel setting,
- 11. Hinge making and assembling,
- 12. Lacing-stud making,
- 13. Paper-fastener making,
- 14. Plow and cultivator irons, making,
- 15. Puddlers' balls, working,
- 16. Railway-chair making,
- 17. Sheet-metal and foil manufacture—
- Processes—
- 18. Pack manipulation,
- 19. Spectacle-frame making,
- 20. Stereotype-plate finishing,
- 21. Tire upsetting, cutting, punching, etc.,
- 22. Toothed-cylinder making,
- 23. Turbine-blade making,
- 23.5. Type finishing and grooving,
- 24. Umbrella-frame making.
- 25. **Combined machines**—
- 33. Type of machine—
- Drill-press,
- 26. Lathe—
- 27. Grinding attachment,
- 28. Pulley and wheel,
- 29. Planer,
- 30. Vise, drill, etc.—
- 31. Anvil-attached,
- 32. Forging, bending, cutting, and punching,
- 34. Forging and rolling,
- 35. Turret—
- Multiple turret,
- 36. Stock-turret,
- 37. Blank turret,
- 38. Tool-turret—

29.—METAL-WORKING—Continued.
- **Combined machines**—Continued.
- Turret—Continued.
- 39. Rotary tool-holder.
- 40. Sliding tool-holder,
- 41. Fluid-operated,
- 42. Cam-operated—
- 43. Longitudinal turret-axis,
- 44. Transverse turret-axis,
- 45. Lever-operated,
- 46. Rack-and-pinion operated,
- 47. Screw-operated,
- 48. Turrets,
- Turret rotating and locking—
- 49. Frictional and positive,
- 50. Positive,
- Multiple-tool holder—
- 51. Laterally-movable stock-holder,
- 52. Axial tool and transversely-movable slide-rest—
- 53. Rotary tool-spindle,
- 54. Longitudinally and transversely movable—
- 55. Rotary tool-spindle,
- 56. Oscillating tool,
- 57. Attachments,
- 58. Stock and blank feeders—
- 59. Advancing stock-support,
- 60. Magazine,
- 61. Reciprocating gripper—
- 62. Sleeve,
- 63. Roller,
- 64. Speed-controllers,
- 65. Carriage stop mechanisms.
- 66. **Metal-breakers.**
- 67. **Sawing**—
- 68. Band-saw,
- 69. Circular saw—
- 70. Multiple,
- 71. Rim-driven,
- 72. Oscillating saw,
- 73. Reciprocating saw—
- 74. Vertical,
- 75. Hand-driven.
- 76. **Filing**—
- 77. File-blank strippers,
- 78. Files and rasps—
- 79. Sectional,
- 80. Holders.
- 81. **Scale removers and preventers.**
- **Sharpening**—
- 82. Edge-serrating,
- 83. Swaging.
- 84. **Assembling**—
- 85. Axle, pin, and collar presses—
- 86. Fluid-operated,
- 86.1. Pin inserters and removers—
- 86.2. Pliers,
- 87. Spoked wheels,
- 87.1. Spring appliers and removers,
- 88. Staking watches and clocks—
- 88.1. Pliers,
- 88.2. Tube appliers and removers,
- 89. Work-holders.
- 90. **Burnishing.**
- 95. **Cutters**—
- 106. Lubricators,
- 103. Rotary—
- 104. Gang,
- 105. Inserted tooth,
- 96. Inserted blade—
- 97. Multiple,
- 98. Angular adjustment,
- 99. Lateral offset,
- 100. Vertical offset,
- 101. Arc,
- 102. Profiled circular blade.
- 148. **Blanks and processes**—
- 149. Beams and rails, mechanically capped,
- 150. Braces and brackets,
- 151. Bridge-irons,
- 152. Carriage-irons—
- 153. Axles,
- 154. Axle boxes and skeins,
- 155. Columns and girders,
- 156. Ferrules, rings, and thimbles—
- 156.1. Packing-rings,
- 157. Gas and water fittings—
- 158. Traps,
- 159. Gears, pulleys, tires, and wheels,
- 160. Grilles,
- 161. Knobs and knob-shanks,
- 162. Lined pipes and tanks,
- 163. Musical vibrators,
- 164. Railway-car irons—
- 165. Axles,
- 166. Axle-boxes,
- 167. Couplings and drawbars,
- 168. Wheels,
- 169. Railway-track irons,

*See Definitions of Revised Classes.

29.—METAL WORKING—Continued.
Blanks and processes—Con.
170. Spinners' and weavers' irons—
171. Spinning-rings,
172. Spring-head clips,
173. Springs,
174. Spoked wheels,
175. Turnbuckles,
176. Velocipede-irons,
177. Watches and clocks—
178. Arbors, pinions, and balances,
179. Cases, crowns, and pendants.
180. **Metal-stock**—
181. Compound—
182. Bars and tubes,
Piles and fagots—
183. Parallel bars—
184. Railroad-rails,
185. Tubular,
186. Box and scrap,
187. Tube and plate, interlocked joint,
Processes—
188. Compound bars and tubes,
189. Compound plate.

30.—CUTLERY.
1. **Animal-shears.**
3. **Can-openers.**
21. **Fork-guards.**
5. **Forks.**
22. **Forks and spoons.**
9. **Knives**—
20. Gage,
8. Hay,
10. Pocket.
23. **Manicure implements.**
11. **Pruning implements**—
24. Fruit-clippers.
12. **Razors.**
25. Blade-holders.
13. **Scissors and shears.**
14. **Twine-cutters.**
17. **Wire-shears.**

31.—DAIRY.
64. **Butter**—
65. Cutters,
66. Processes.
25. **Butter workers and molds.**
67. **Cheese**—
68. Cutters,
69. Processes.
21. **Cheese-hoops.**
26. **Cheese-turners.**
22. **Cheese-vats and curd-breakers.**
7. **Churns.**
27. **Cream-pumps.**
75. **Milk-cans**—
76. Breasts,
77. Closures—
78. Locking—
79. Key,
80. Rotary,
81. Coolers—
82. Internal tube,
83. Jacketed,
84. Ventilated,
85. Creaming—
86. Agitators,
87. Vacuum,
88. Floats.
70. **Milking-machines**—
71. Catheter—
94. Suction,
Compression—
95. Fluid pulsations,
96. Mechanical,
73. Suction—
97. Automatic cut-offs,
98. Intermittent—
99. Pulsators,
Suction and compression—
100. External pressure pulsations.
101. External suction pulsations.
102. Teat-cups.
13. **Milk-stools.**
89. **Milk-treating**—
90. Aerating,
91. Circulation,
93. Cooling,
92. Vats.
14. **Pails and strainers.**
28. **Tables and racks.**

32.—DENTISTRY.
1. **Articulators.**
12. **Bridgework.**
13. **Disks and holders.**
14. **Engines**—
21. Bracket-supports,
23. Friction-gear,
22. Standard-supports.
3. **Foil-condensers.**
15. **Handpieces**—
11. Angle attachments.
16. **Jaw-braces.**
17. **Matrices.**
4. **Mechanical.**
5. **Miscellaneous.**
6. **Molds.**
27. **Mouth-mirrors.**
28. **Obtunders.**
7. **Operative.**
8. **Pluggers**—
18. Air,
24. Angle attachments,
25. Hand-operated,
26. Power-operated.
19. **Regulators and spacers.**
20. **Rubber-dam clamps.**
33. **Saliva-ejectors.**
9. **Teeth**—
32. Filling,
29. Metal crown,
30. Porcelain crown.
10. **Tools**—
31. Burs,
34. Forceps,
35. **Veterinary.**

33.—GEOMETRICAL INSTRUMENTS.*
1. **Miscellaneous.**
2. **Apparel**—
3. Footwear—
4. Laying out—
5. Patterns,
6. Processes,
7. Leveling feature,
8. Stand-supported—
9. Skirt—
10. Platform,
11. Laying out—
12. Patterns and charts—
13. Perforated,
14. Adjustable—
15. Conforming,
16. Adjustable,
17. Processes.
18. **Scribers**—
19. Graduating,
20. Sight-line controlled,
21. Curved surface—
22. Pantographic,
23. Pantographic—
24. Multiplane,
25. Parallelogram type,
26. Compound curved and straight line,
27. Curved line—
28. Lens,
29. Stair,
30. Ellipsographs—
31. Right-angle guides,
32. Straight line—
33. Clapboard,
34. Ink—
35. Traveling markers—
36. Rotary,
37. Rotary markers—
38. Blank space,
39. Blank space,
40. Set-shift,
41. Parallel line—
42. Edge-guided—
43. Bevel-set,
44. Multimarkers,
45. Machine type.
46. **Light-ray type**—
47. Gun-sights—
48. Ordnance—
49. Automatic gun-movement compensators,
50. Firearm-telescope type,
51. Multisight line,
52. Particular surfaces,
53. Variable—
54. Rotatable series,
55. Vertically, laterally, and folding,
56. Vertically and laterally,
57. Vertically and folding,
58. Vertically,
59. Laterally,

33.—GEOMETRICAL INSTRUMENTS—Continued.
Light-ray type—Continued.
60. Track leveling and gaging,
61. Solar—
62. Time-computing,
63. Multisight line—
64. Common view-point,
65. Relative angular and sliding adjustment,
66. Relative angular adjustment,
67. Chart and straight-edge features,
68. Angular and sliding adjustment,
69. Vertical and horizontal angle measurers,
70. Vertical-angle measurers—
71. Distance-finding feature,
72. Horizontal-angle measurers,
73. Levels,
74. Rods and targets.
75. **Straight-edge type**—
76. Base-attached—
77. Perspective-plotters,
78. Rotary base,
79. Universal parallelism,
80. Both ends connected,
81. Set-shift,
82. Clapboard-marking,
83. Paper-tearing,
84. Shaft-alining and leveling,
85. Wall guides and plumbs,
86. Cord—
87. Chalking feature,
88. Leveling feature—
89. Square type,
90. Multiplane,
91. Intercontrolled bevel-blades,
92. Square and hypotenuse,
93. Square and pivoted straight-edge—
94. Sliding,
95. Square and sliding non-pivoted straight-edge,
96. Square and fixed straight-edge,
97. Pivoted straight-edge and sliding non-pivoted,
98. Multipivoted straight-edges,
99. T-head and pivoted straight-edge—
100. Locking,
101. Sliding,
102. Sliding pivotal adjustment,
103. Sliding non-pivotal adjustment,
104. Polygons,
105. Folding-rule type—
106. Opposed contact attachments,
107. Rules and rulers—
108. Parallel—
109. Rolling,
110. Set-shift,
111. Scale-markings,
112. Squares—
113. Scale-markings,
114. Separable joints,
115. Pivot-joints—
116. 90° limit—
117. Locking,
118. 180° limit—
119. Locking,
120. Locking.
121. **Area-integrators**—
122. Planimeters,
123. Electrical,
124. Rolling contact.
125. **Distance**—
126. Sounding,
127. Fabric and cord—
128. Bolt,
129. Rolling contact—
130. Cutting feature—
131. Predetermined stop or signal,
132. Predetermined stop or signal,
133. Computing,
134. Non-feeding,
135. Cutting feature,
136. Predetermined stop or signal,
137. Tape—
138. Reel feature—
139. Dial—
140. Computing,
141. Rolling contact—
142. Computing,
143. Opposed contacts—
144. Track—
145. Leveling feature,
146. Dial,
147. Dial—
148. On pivoted type,

*See Definitions of Revised Classes.

33.—GEOMETRICAL INSTRUMENTS— Continued.
- **Distance—**Continued.
  - Opposed contacts—Continued.
    - 149. Pivoted—
      - 150. Proportional,
      - 151. Point-parallelizing,
      - 152. Extensible leg,
      - 153. Joints and setters—
      - 154. Screw adjustment—
        - 155. Tangent,
        - 156. Median,
        - 157. Median handle,
    - 158. Beam-trammel type—
      - 159. Screw adjustment,
      - 160. Pivoted trammel,
    - 161. Extensible-rule type,
    - 162. Adjustable wedge,
    - 163. Screw adjustment—
      - 164. Micrometer—
        - 165. Preliminary setting,
        - 166. Particular indicator,
        - 167. Attachments,
      - 168. Fixed,
    - 169. Single or offset contact—
      - 170. Screw adjustment—
        - 171. Pivotal,
      - 172. Dial,
      - 173. Attachment type.
- 174. **Gages—**
  - 175. Conformator—
    - 176. Flexible band,
  - 177. Curve-ruler type,
  - 178. Circular size—
    - 179. Flexible band,
  - 180. Collocating—
    - 181. Machine parts—
      - 182. Rolls,
      - 183. Typewriter,
      - 184. Watch,
    - 184.5. Printing members—
      - 184.6. Hand-stamp,
    - 185. Tool—
      - 186. Shears,
    - 187. Clapboard,
    - 188. Shingle,
  - 189. Point-markers—
    - 190. Button or buttonhole,
    - 191. Center,
    - 192. Proportional,
  - 193. Axle,
  - 194. Door and window,
  - 195. Hoof,
  - 196. Millstone,
  - 197. Mortise,
  - 198. Paper-tearing,
  - 199. Screw-thread,
  - 200. Spectacle,
  - 201. Tool—
    - 202. Saw,
  - 203. Wheel,
- 204. **Direction-indicators—**
  - 205. Bore-hole testers,
  - 206. Levels and plumbs—
    - 207. Special supports,
    - 208. Folding and extensible,
    - 209. Liquid column,
    - 210. Compound bubble and pendulum,
    - 211. Bubble—
      - 212. Multi-indicating bubble,
      - 213. Adjustable—
        - 214. Adjusting means,
    - 215. Pendulum—
      - 216. Bob type—
        - 217. Reel feature,
      - 218. Adjustable—
        - 219. Adjusting means,
      - 220. Checking feature,
      - 221. Securing feature,
  - 222. Magnetic compasses—
    - 223. Liquid,
    - 224. Deviation-compensators,
    - 225. Deviation-preventers.

34.—DRIERS.
- 1. **Absorbent.**
- 3. **Condensers.**
- **Cylinder—**
  - 4. External,
  - Internal—
    - 5. Rotary horizontal,
    - 6. Rotary inclined,
    - 7. Stationary horizontal,
    - 8. Stationary inclined,
    - 9. Vertical.
- 10. **Disk and hopper.**
- 11. **Elevator.**
- 12. **Endless carrier.**
- 13. **Endless scraper.**

34.—DRIERS—Continued.
- **Floors—**
  - 14. Fixed,
  - 15. Tilting section.
- 16. **Forms and platens.**
- 17. **Frames and trays.**
- 18. **Heaters.**
- 19. **Houses and kilns.**
- 20. **Lath and chain.**
- 22. **Pan and boiler.**
- 23. **Pan and scraper.**
- 21. **Pans.**
- 24. **Processes.**
- 25. **Push-bar.**
- 26. **Racks and stands.**
- **Reels—**
  - 27. Skein,
  - 28. Tray-carrier,
  - 29. Winding.
- 30. **Retort.**
- 31. **Rolls.**
- 32. **Rotary disk.**
- 36. **Shaft and cylinder.**
- 37. **Shaft and shelf.**
- **Shafts—**
  - 33. Inclined,
  - 34. Vertical,
  - 35. Zigzag.
- 38. **Shaking.**
- 39. **Shelf and tray.**
- 40. **Sliding rack.**
- 41. **Solar.**
- 42. **Spiral.**
- 43. **Stirrers.**
- 44. **Trough and beater.**
- 45. **Trough and screw.**
- **Truck and rail—**
  - 46. Horizontal,
  - 47. Inclined.
- 48. **Web.**

35.—EDUCATIONAL APPLIANCES.
- 1. **Alphabet-blocks.**
- 2. **Arithmetic.**
- 3. **Astronomy.**
- 15. **Blackboards.**
- 13. **Cryptography.**
- 5. **Globes.**
- 6. **Maps.**
- 12. **Miscellaneous.**
- 16. **Models—**
  - 17. Design.
- 8. **Penmanship.**
- 9. **Reading.**
- 14. **Slate-rubbers.**
- 10. **Slates.**

36.—BOOTS, SHOES, AND LEGGINGS.*
- 1. **Miscellaneous.**
- 1.5. **Boots or shoes and detachable leg-covers.**
- 2. **Leggings and gaiters.**
- 10. **Inside slippers.**
- 11. **Moccasins.**
- 3. **Ventilated.**
- 4. **Rubber—**
  - 5. Overshoes—
    - 6. Heelless.
- 9. **Felt and fabric.**
- 12. **Sole-attaching means—**
  - 13. Wooden soles,
  - 14. Rubber,
  - 15. Detachable soles,
  - 16. Outturned uppers,
  - 17. Welt-connected,
  - 18. Single-laced stitch,
  - 19. Through and through,
  - 21. Seams,
  - 22. Prepared soles,
  - 23. Fasteners—
    - 24. Peg.
  - 25. **Soles—**
    - 26. Fleeced slipper,
    - 27. Spring-heel,
    - 28. Cushion—
      - 29. Pneumatic,
    - 30. Laminated,
    - 31. Sectional,
    - 32. Rubber,
    - 33. Wooden.
  - 34. **Heels—**
    - 35. Cushion—
      - 36. Detachable,
      - 37. Internal cushion,
      - 38. Metallic spring,
    - 39. Rotary,
    - 40. Metallic shell—
      - 41. Detachable,
      - 42. Detachable.

36.—BOOTS, SHOES, AND LEGGINGS— Continued.
- 43. **Insoles—**
  - 44. Laminated.
- 45. **Uppers—**
  - 46. Corded,
  - 47. Blanks—
    - 48. Integral vamp and quarters—
      - 49. Seamless,
    - 50. Closures—
      - 51. Elastic,
      - 52. Buttonhole-pieces,
      - 53. Slit stays,
      - 54. Tongue-pieces,
    - 55. Linings,
    - 56. Pulls,
    - 57. Seams, stays, and pipings,
    - 58. Metallic seam-stiffener.
- 58.5. **Boot and shoe retaining—**
  - 58.6. Heel-engaging.
- 68. **Counter-stiffeners.**
- 69. **Counter and heel supports.**
- 71. **Pads and foot-supporters.**
- 76. **Shanks.**
- 77. **Toe caps and tips.**
- 78. **Welts and rands.**
- 59. **Antislipping devices—**
  - 60. Pole-climbers,
  - 61. Disengaging,
  - 62. Detachable—
    - 63. Sandal,
    - 64. Clamping—
      - 65. Screw,
      - 66. Attached fasteners,
    - 67. Calks.
- 70. **Garment-protectors.**
- 72. **Protectors—**
  - 73. Sole and heel—
    - 74. Spur-attached,
    - 75. Embedded.

37.—EXCAVATING.
- 11. **Diggers.**
- 56. **Digging-teeth.**
- **Dredgers—**
  - 18. Anchoring,
  - 14. Clam-shell—
    - 30. Buckets,
  - 13. Scouring—
    - 36. Hydraulic.
- **Excavators—**
  - 24. Chain and bucket—
    - 23. Buckets,
  - Distant power—
    - 55. Boom type,
  - 9. Hydraulic—
    - 46. Pipe-supports,
    - 47. Rotary head,
    - 44. Steam vacuum,
    - 45. Suction-pipe mouthpieces,
  - 52. Mole-plows,
  - 25. Plow and carrier—
    - 48. Side-delivery plow,
  - 10. Rammers,
  - 26. Screw—
    - 27. And carrier,
  - 17. Wheel—
    - 28. And belt,
    - 29. And carrier.
- 50. **Machine-picks.**
- 39. **Miscellaneous.**
- 59. **Road or track clearers—**
  - 62. Digger or conveyer—
    - 63. Rotary,
  - 60. Heaters or melters—
    - 61. Elevator,
  - 64. Rail-cleaners—
    - 65. Rotary,
  - 66. Rut-cutters.
- 40. **Scoops—**
  - 54. Buckets,
  - 41. Railway side.
- 5. **Scrapers—**
  - 19. Distant power,
  - 42. Sledded,
  - 7. Wheeled—
    - 49. Annular blade-carrier.
- 57. **Scrapers or plows, railway type—**
  - 58. Spreaders or graders.
- 6. **Self-loading carts—**
  - 32. Carrier,
  - 33. Scoop,
  - 34. Wheel.

38.—FELT AND FUR.
- 7. **Fabrics.**
- 8. **Felting-machines.**
- 9. **Flock-cutting.**
- 10. **Forming bats.**
- 11. **Fulling.**
- 12. **Furs and pelts.**

* See Definitions of Revised Classes.

39.—GATES.*

1. **Miscellaneous.**
2. **Successive barrier—**
3. Turnstiles.
4. **Flood.**
5. **Flush—**
6. With operator.
7. **Motor-driven—**
8. Fluid-pressure motor.
9. **Mechanically operated—**
10. Compound,
11. Multiple movement—
12. On vertical pivot—
With horizontal translation and vertical adjustment,
13. And series of horizontal pivots,
14. With vertical adjustment,
15. And on horizontal pivot,
16. With horizontal translation,
17. Automatic return—
18. Load-restrained,
19. Track-guard—
20. Double-acting,
21. Lateral barrier,
22. Vertically pivoted—
23. With weight,
24. Horizontally pivoted,
25. Horizontal translational movement,
Gate and latch—
26. Gate folding on vertical pivots,
27. Gate folding on horizontal pivots,
28. Gate vertically pivoted—
29. Interconnected,
30. Pivot intermediate,
31. Gravitational,
32. Hinge-stile operated—
33. Geared,
34. Sheaved,
35. Crank-arm,
36. Rear extension,
37. Intermediately-connected operator—
38. Lever—
39. Toggle,
40. On hinge-post,
41. Flexible,
42. Gate horizontally pivoted—
43. Pivot transverse—
44. With weight,
45. Gate having translational movement—
46. Curvilinear,
47. Interconnected,
48. Operator connected at ends,
49. Folding on vertical pivots,
50. Folding on horizontal pivots,
51. Vertically pivoted—
52. Interconnected,
53. Pivot intermediate,
54. Jump,
55. Gravitational—
56. Movable pivot—
57. Lever on hinge-post,
58. Intermediately-connected operator—
59. Toggle,
60. Horizontally pivoted—
61. Interconnected—
62. Bar,
63. Translational movement—
64. Curvilinear,
65. Horizontal—
66. Interconnected,
67. Gravitational—
68. Sectional track,
69. Bar and wheel moved,
70. Operator connected at ends,
71. Lever-operator—
72. Loosely connected,
73. Toggle.
74. **Tension.**
75. **Compound.**
76. **Multiple movement—**
On two axes—
77. With horizontal translation,
78. With vertical adjustment,
On vertical axis—
79. With horizontal translation and vertical adjustment,
80. And series of horizontal pivots,
81. With vertical adjustment,
82. And on horizontal pivot,
83. With horizontal translation.
84. **Automatic return.**
85. **Folding on vertical pivots.**
86. **Folding on horizontal pivots.**
87. **Vertically pivoted.**
88. **Horizontally pivoted—**
89. Picket-shaft,
90. Falling panel,
91. Pivot transverse—
92. Bar.

39.—GATES—Continued.

93. **Translational—**
94. Curvilinear,
95. Horizontal.
96. **Front-end supports.**

40.—CARD, PICTURE, AND SIGN EXHIBITING.*

1. **Exhibitors.**
1.5. **Badges—**
1.6. Changeable reading.
124.5. **Memorial tablets.**
2. **Checks, labels, and tags—**
3. Animal-markers,
4. Bottle,
7. Display-box labels,
8. Doorknob and drawer-pull,
9. Hat,
5. Changeable reading—
6. Baggage-checks,
27. Reinforced,
10. Holders—
12. Cornice,
11. Clip,
13. Hinged clamp,
14. Hinged clamp and spur,
15. Lock,
16. Slide,
17. Slide and detent—
18. Limited movement,
19. Tubular,
19.5. Check boards or racks,
20. Fasteners—
21. Band,
22. Barbed,
23. Clasp,
24. Pin-loop,
25. Spur,
26. Spring-hook.
107. **Calendars—**
109. Charactered slide,
110. Character-markers,
111. Rotatable—
112. Clutch take-up,
113. Disk,
114. Single axis—
115. Disk,
116. Single reel and web,
117. Double reel and web,
118. Endless,
119. Hinged leaves,
121. Tear-off tablets,
122. Card-pockets,
120. Stands,
108. Pencil attachments.
28. **Changeable exhibitors—**
105. Train-order holders,
29. Aerostatic,
52. Electrically controlled—
53. Electromotor-operated,
54. Magneto-clutch let-off,
55. Magneto-clutch take-up,
56. Obstacle-controlled circuit-closers—
57. Electromotor-operated,
58. Magneto-clutch let-off,
59. Magneto-clutch take-up,
30. Motor-operated—
31. Double reel and web,
32. Endless,
33. Rotatable—
34. Disk,
35. Hinged leaves,
36. Shifters,
37. Fluid-operated—
38. Double reel and web,
39. Rotatable—
40. Illuminated,
41. Axle-operated—
42. Double reel and web,
43. Endless,
44. Rotatable,
45. Obstacle-operated—
46. Double reel and web—
47. Clutch take-up,
48. Endless,
49. Rotatable,
50. Shifters,
51. Pendulum-operated,
60. Door-operated,
61. Inscription-covers—
62. Sliding,
63. Interchangeable plates—
64. Sliding,
65. Sliding plates—
66. Bolt-operated,
67. Pivoted plates,

40.—CARD, PICTURE, AND SIGN EXHIBITING—Continued.

Changeable exhibitors—Cont

68. Rotatable—
69. Clutch take-up,
70. Disk—
71. Clutch take-up,
72. Hinged leaves—
73. Clutch take-up,
74. Radially-movable leaves—
75. Clutch take-up,
76. Multiple-drum controllers,
77. Illuminated,
78. Shifters—
79. Reciprocating,
80. Revolving,
81. Revolving pack-case,
82. Single reel and web—
83. Reel-cabinets—
84. Revolving,
85. Spring-rewind,
86. Double reel and web—
87. Clutch take-up—
88. Reversible clutch,
89. Spring rewind—
90. Clutch take-up,
91. Clutch let-off—
92. Obstacle-trip,
93. Reversing-gears—
94. Clutch take-up,
95. Intergeared reels,
96. Endless—
97. Hinged leaves,
98. Radial leaves,
99. Clutch take-up,
100. Folding web and reel—
101. Clutch take-up,
102. Hinged leaves—
103. Leaf-releasers,
104. Leaf-turners,
106. Couplings
125. **Signs—**
126. Dummies,
127. Aerostatic,
130. Illuminated—
131. Lamp attachments,
132. Lamp-boxes—
133. Perforated face,
134. Luminous paint,
138. Vibratory—
139. Motor-operated,
135. Multiple layer,
136. Embossed, molded, rolled, or stamped,
137. Variable reading,
128. Hanging,
129. Portable,
140. Interchangeable letters—
141. Glass,
142. Fasteners—
143. Prong,
144. String,
145. Post attachments.
124. **Card-racks.**
145.1. **Picture-hangers—**
145.7. Plaque-retainers,
145.2. Adjustable—
145.3. Cord—
145.4. Pawl and ratchet,
145.5. Steps,
145.6. Slide and clamp,
145.8. Retaining-cord.
146. **Picture stands and supports—**
147. Illuminators,
148. Frames,
149. Single blank—
150. Braces,
151. Wire.
152. **Picture-frames—**
153. Cord or wire,
154. Embossed, molded, rolled, or stamped,
155. Extensible, folding, or knock-down,
156. Card or picture retainers,
157. Cover-retainers,
158. Mats, mounts, and backs—
159. Pocketed,
160. Relief-picture.

41.—ORNAMENTATION.*

1. **Apparatus and appliances—**
2. Imitation-flower making—
3. Stems and vines,
3.5. Stencil-making,
4. Painters'—
4.5. Shading films or holders,
5. Palettes and mixing-plates,
5.5. Graining,
6. Mixing-charts,
7. Metallic-leaf applying,
9. Etching.

* See Definitions of Revised Classes.

41.—ORNAMENTATION—Continued.
- 10. **Ornamental forms**—
- 11. Collapsible,
- 12. Floral,
- 13. Imitation flowers—
- 14. Special feature,
- 15. Imitation trees,
- 16. Imitation feathers.
- 17. **Surface type**—
- 18. Miscellaneous metallic,
- 19. Striated effects,
- 20. Transformation effects,
- 21. Diaphanous,
- 22. Diaphanous face, opaque backing,
- 23. Mosaic,
- 24. Relief and intaglio—
- 25. Reproducing—
- 25.5. Preparing make-readys,
- 26. Pigment—
- 27. Treating photographs—
- 28. Clearing feature,
- 29. Masking,
- 30. Filled recesses—
- 31. Applied outlines,
- 31.5. Copying—
- 31.6. Surfaces or compositions,
- 32. Plaques and surfaces,
- 33. Transfers,
- 34. Applied objects—
- 35. Inlaid,
- 36. Particles,
- 37. Metallic leaf,
- 38. Removing portions of coating—
- 38.5. Stencil-making—
- 38.6. Sheets or compositions,
- 39. Abraded and roughened—
- 40. Chipping with adhesive,
- 41. Chemical—
- 41.5. Planographic printing surface,
- 42. Etching—
- 43. Resist preparation,
- 45. Designs without resist,
- 46. Mechanical negatives.

42.—FIREARMS.*
- 1. **Miscellaneous.**
- 52. **Cane-guns.**
- 53. **Pistol-swords.**
- 54. **Toy**—
- 56. Liquid-throwing,
- 57. Ribbon-fed,
- 58. Revolvers,
- 55. Cannon.
- 2. **Breech-loading**—
- Automatic—
- 3. Gas-operated,
- 4. Recoil-operated,
- 5. Spring-motor operated,
- 8. Breech-hinged barrel,
- 9. Faucet breech-block,
- 10. Forward-sliding barrel—
- 11. Magazine,
- 12. Side-swinging barrel—
- 13. Parallel pivot,
- 14. Sliding breech-block—
- 15. Magazine,
- 16. Rearward—
- 17. Magazine—
- 18. Box,
- 19. Rotary,
- 20. Pivoted hammer—
- 21. Magazine—
- 22. Box,
- 25. Extractors,
- 23. Vertical mortise—
- 24. Magazine,
- 26. Swinging breech-block—
- 27. Magazine,
- 28. Downward and rearward—
- 29. Magazine,
- 30. Laterally forward,
- 31. Laterally rearward,
- 32. Parallel pivot—
- 33. Magazine,
- 34. Rearward and downward—
- 35. Magazine,
- 36. Upward and forward—
- 37. Magazine,
- 38. Upward and rearward—
- 39. Magazine,
- 40. Upward-tilting breech—
- 41. Locks—
- 42. Single trigger,
- 43. Cocking devices,
- 44. Barrel-locks—
- 45. Hammer-cocking,
- 46. Extractors,
- 47. Ejectors—
- 48 Hammer,

42.—FIREARMS—Continued.
- **Breech-loading**—Continued.
- 7. Grip magazine-pistols,
- 6. Magazine,
- 49. Magazines—
- 50. Box.
- 51. **Muzzle-loaders.**
- 59. **Revolvers**—
- 60. Magazine-fed cylinder,
- 61. Muzzle-loaders,
- 62. Swinging cylinder,
- 63. Hinged barrel—
- 64. Barrel-catches,
- 65. Locks—
- 66. Safety devices,
- 67. Cylinder-stops,
- 68. Shell-extractors.
- 69. **Locks**—
- 70. Safety.
- 71. **Stocks**—
- 72. Auxiliary,
- 73. Adjustable,
- 74. Cushioned,
- 75. Stock and barrel fastenings.
- 76. **Barrels**—
- 77. Auxiliary,
- 78. Rifling,
- 79. Choke devices.
- 83. **Nipples and guards.**
- 84. **Electric appliances.**
- 85. **Gun-trimmings.**
- 86. **Bayonets.**
- 87. **Magazine-chargers**—
- 88. Packs—
- 89. Revolver.
- 90. **Implements**—
- 91. Cleaning—
- 92. Rod-joints,
- 93. Intrenching,
- 94. Rests,
- 95. Shell-extracting.

43.—FISHING AND TRAPPING.
- 2. **Decoys.**
- 35. **Fishing**—
- 28. Bait and tackle holders,
- 4. Floats,*
- 6. Harpoons and spears,
- 7. Hooks—
- 30. Artificial bait,
- 31. Spring-actuated,
- 9. Nets and seines,
- 11. Oyster-dredges,
- 12. Oyster rakes and tongs,
- 16. Rods—
- 37. Reel-mounts,
- 36. Reel-section,
- 17. Sinkers.
- **Insect-destroyers**—
- 1. Catchers,
- 5. Fumigators,
- 14. Powder-dusters.
- **Traps**—
- 19. Cage,
- 34. Electrical,
- 20. Fish,
- 21. Impalement,
- 22. Insect—
- 32. Mechanical,
- 23. Jaw,
- 24. Self and ever set,
- 25. Sporting,
- 26. Victim-set,
- 27. Wire-choker.

44.—FUEL.
- 1. **Artificial**—
- 7. Fluid—
- 8. Carbureting compositions.
- 2. **Fire-kindlers**—
- 5. Absorbers,
- 6. Automatic.
- 3. **Peat-machines.**
- 4. **Purifying coal.**

45.—FURNITURE.
- **Book and music holders**—
- 57. Base-supported—
- 80. Adjustable,
- 81. Rotary,
- 59. Body-supported,
- 60. Bookstands—
- 85. Folding,
- 86. Leveling,
- 58. Bracket-supported—
- 82. Adjustable,
- 61. Leaf-holders,
- 83. Leaf-rests,
- 62. Music-stands—
- 121. Portable,
- 64. Portfolio.

45.—FURNITURE—Continued.
- 1. **Bookcases**—
- 53. Adjustable shelf partitions,
- 54. Adjustable shelves and shelf-supports.
- 55. Hanging shelves,
- 78. Knockdown,
- 79. Revolving,
- 56. Roller-shelves.
- 5. **Bureaus**—
- 88. Knockdown.
- 89. **Carpet-stretchers.**
- 68. **Covers.**
- 6. **Desks**—
- 90. Attachments,
- 91. Lids—
- 92. Flexible,
- 69. Portable,
- 93. Sectional,
- 70. Table.
- 7. **Drawers**—
- 77. Guides,
- 94. Locking devices,
- 95. Swinging,
- 96. Tilting.
- 131. **Drawing-boards.**
- 129. **Easels.**
- 24. **Fabric-stretching frames**—
- 130. Painters'.
- 2. **File-cabinets**—
- 3. Revolving.
- 4. **File-racks.**
- 13. **Hat and coat racks.**
- 15. **Insect-guards.**
- 16. **Kitchen-cabinets**
- 18. **Mirrors**—
- 97. Bracket,
- 98. Hand,
- 99. Multiple,
- 100. Stand.
- 22. **Packing furniture.**
- 137. **Pads and feet.**
- 71. **Provision-safes**—
- Evaporative—
- 132. External,
- 133. Internal,
- 134. Porous wall,
- 102. Knockdown,
- 103. Revolving,
- 104. Window.
- 105. **Screens**—
- 106. Folding.
- 28. **Soap-holders**—
- 136. Shaving-cups.
- 31. **Tables**—
- Adjustable—
- 109. Angularly,
- 110. Angularly and vertically,
- 74. Folding,
- 111. Vertically,
- 75. Attachments,
- 9. Extension—
- 112. Center,
- 113. End,
- 114. Flexible top,
- 115. Slides,
- 11. Folding—
- 116. Sectional top,
- 122. Game,
- 17. Kitchen,
- 46. Lap,
- 47. Leaf-supports,
- 48. Leg fastening and bracing,
- 117. Pedestals,
- 26. Self-waiting,
- 27. Sewing-machine—
- 120. Covers,
- 50. Surgical,
- 51. Wall.
- 135. **Toilet racks or cabinets.**
- 32. **Towel racks and stands.**
- 52. **Typewriter-cabinets.**
- 33. **Umbrella-stands.**
- 138. **Upholstery-making.**
- 36. **Wall-protectors.**
- 37. **Wardrobes**—
- 118. Knockdown.
- 38. **Washstands**—
- 119. Reservoir.

46.—GAMES AND TOYS.
- 72. **Amusement-elevators.**
- 71. **Amusement-houses.**
- 73. **Arenas.**
- 4. **Balls and bats.**
- 43. **Baseball.**
- 6. **Billiard appliances**—
- 7. Balls,
- 8. Chalk-cups,
- 9. Cues,
- 10. Cue-tip fasteners,
- 11. Cushions,
- 12. Tables,
- 13. Table-levelers.

* See Definitions of Revised Classes.

46.—GAMES AND TOYS—Continued.
- 66. **Bowling alleys.—**
- 54. Pin-setting apparatus.
- 14. **Buzzes and whirligigs.**
- 55. **Card-game accessories.**
- 56. **Chance devices—**
- 57. Ball.
- 15. **Croquet.**
- 58. **Dumb-bells and clubs.**
- 58. **Duplicate-whist apparatus.**
- 60. **Exercising-machines.**
- **Game apparatus—**
- 59. Aerial projectiles—
- 60. Peg and pocket,
- 61. Surface projectiles—
- 62. Longitudinal.
- 21. **Game-boards—**
- 63. Chance-controlled,
- 64. Checkered surfaces.
- 65. **Game-pieces.**
- 22. **Hobby-horses.**
- 24. **Lawn-tennis.**
- 25. **Playing-cards.**
- 41. **Puzzles and magic.**
- 27. **Roundabouts.**
- 53. **Skaters' appliances.**
- 50. **Skates—**
- 51. Roller.
- 52. Skate-wheels.
- 30. Skipping-ropes.
- 67. Snow-shoes.
- 31. Soap-bubble pipes.
- 32. Spinning-tops.
- 70. Theater appliances.
- 35. Toy building-blocks.
- 36. Toy money-boxes.
- 37. Toys—
- 49. Electric,
- 40. Figure—
- 45. Wheeled,
- 46. Sounding—
- 47. Wheeled,
- 48. Wheeled.
- 38. **Trundles and hoops.**

47.—TREES, PLANTS, AND FLOWERS.
- 15. Blanching.
- 17. False stems.
- 18. Flower-holders.
- 19. Flower-pots.
- 21. Garden-beds.
- 6. Grafting.
- 22. Hand-screens.
- 23. Hanging baskets.
- 13. Hedge-training.
- 7. Hop culture.
- 24. Lawn-vases.
- 27. Plant frames and **houses.**
- 25. Plant-stands—
- 26. Revolving.
- 28. Root-guards.
- 29. Sap-buckets.
- 11. Sap-spouts.
- 30. Seed-testers.
- 31. Stays and props.
- 32. Strawberry-growing.
- 34. Transplanting-pots.
- 35. Trap-belts.
- 36. Treatment—
- 37. Implements.
- 33. Tree-covering.
- 12. Trellises.
- Trunk-guards—
- 38. Cattle,
- 39. Vermin.
- 40. **Turpentine-gathering.**
- 41. **Window-gardens.**

48.—GAS, HEATING AND ILLUMINATING.*
- **Acetylene—**
- 1. Generation and liquefaction,
- 2. Generator and holder,
- 3. Generator and mixer,
- Generators—
- 4. Water-feed—
- 5. Holder-operated—
- 6. Series—
- 7. Automatic switch,
- 8. Cells series,
- 9. Gasometer and high-pressure holder,
- 10. Interior valve,
- 11. Rotary cylinder,
- 12. Underfeed,
- 13. Valveless—
- 14. Displacer,
- 15. Flexible tube,
- 16. Generator-supported,
- 17. Siphon,
- 18. Tilting,

48.—GAS, HEATING AND ILLUMINATING—Continued.
- **Acetylene**—Continued.
- Generators—Continued.
- Water-feed—Continued.
- 19. Ebb and flow—
- 20. Series,
- 21. Cells series,
- 22. Concentric,
- 23. Series,
- 24. Cells series,
- 25. Capillary—
- 26. Adjustable,
- 27. Percolating—
- 28. Pressure-valves,
- 29. Expansible carbid-container,
- 30. Expansible water-holder,
- 31. Inexpansible gas-holder and water-feed,
- 32. Oscillating,
- 33. Rotary cylinder,
- 34. Rotary grate,
- 35. Underfeed,
- 36. Interlocking devices,
- 37. Pressure-valves,
- 38. Carbid-feed—
- 39. Apron or belt,
- 40. Cock,
- 41. Dip—
- 42. Cells series,
- 43. Flap-valve,
- 44. Hand—
- 45. Dip,
- 46. Measured charges—
- 47. Cartridges,
- 48. Rotary carrier—
- 49. Vertical,
- 50. Stationary,
- 51. Piston,
- 52. Plate-valve,
- 53. Pop-valve—
- 53.1. Bell-operated—
- 53.2. Bell and holder combined,
- 53.3. Diaphragm-operated,
- 53.4. Float-operated,
- 54. Screw,
- 55. Slide-valve,
- 58. Valves, gas and water-feed,
- 56. Automatic safety-escape,
- 57. Sludge-remover,
- 59. Carbid-cartridges—
- 60. Conglomerate.
- 61. **Generators—**
- 114. Hydrogen—
- 115. Series,
- 116. Carbureter—
- 117. Air,
- 118. Floating oil,
- 118.1. Cupola,
- 118.2. Retort,
- 62. Cupola—
- 71. Coal, oil, and water,
- 72. Coal and oil,
- 73. Coal and water,
- 76. Producers,
- 77. Coal,
- 78. Water—
- 79. Carbureter—
- 80. Fixer,
- 81. Retort,
- 84. Oil-gas,
- 82. Up-and-down run—
- 83. Interlocking valves,
- 85. Carbon monoxid,
- 75 Oil and steam injected,
- 63. Air and steam injected—
- 64. Superheated,
- 65. Electric,
- 66. Rotary bottom,
- 67. Water-jacket—
- 68. Rotary bottom,
- 69. Water-seal pit,
- 74. Refractory filling,
- Fuel-agitating—
- 85.1. Movable wall,
- 85.2. Stirrer,
- 86. Chargers,
- 87. Accessories,
- 89. Retort—
- 98. Coal, oil, and water,
- 99. Coal and water,
- 100. Coal and oil,
- 101. Coal,
- 102. Oil—
- 103. Electric heater,
- 104. Jet-mixers,
- 105. Steam injected,
- 106. Automatic feed,
- 107. Air injected,
- 108. Water—
- 109. Carbureter,
- 110. Oil-gas,

48.—GAS, HEATING AND ILLUMINATING—Continued.
- **Generators**—Continued.
- Retort—Continued.
- 111. Wood—
- 112. Oil,
- 92. Metal-bath,
- 93. Oil and gas injected,
- 94. Oil and steam injected—
- 95. Air,
- 96. Carbureter,
- 90. Domestic plants,
- 113. Furnaces,
- 118.5. Portable.
- 119. **Retorts—**
- 120. Compound,
- 121. Rotary,
- 122. Inclined,
- 123. Vertical,
- 124. Lids—
- 125. Rotary,
- 126. Attachments,
- 127. Cleaning.
- 196. **Natural.**
- 144. **Carbureters—**
- 160. Gravity,
- 161. Lamps—
- 162. Gravity.
- 128. **Purifiers.**
- 170. **Center and by-pass valves.**
- 171. **Dip-pipes—**
- 172. Valves.
- 173. **Exhausters.**
- 174. **Holders—**
- 175. High-pressure safety-escape,
- 176. Bell and tank—
- 177. Sectional bell,
- 178. Collapsible,
- 179. Tank.
- 180. **Mixers—**
- 181. Bell and tank—
- 182. Anterior,
- 183. Posterior,
- 184. Diaphragm,
- 185. Gravity,
- 186. Pump.
- 187. Rotary drum.
- 188. Anterior,
- 189. Posterior.
- 190. **Distribution—**
- 191. Regulating pressure,
- 192. Safety devices,
- 193. Leakage—
- 194. Preventing,
- 195. Odorizers.
- 197. **Processes—**
- 198. Hydrogen—
- 199. Carbureting,
- 200. Coal, oil, and water,
- 201. Coal and oil,
- 202. Coal and water,
- 203. Producer,
- 204. Water—
- 205. Carbureting,
- 206. Continuous,
- 207. Down-run,
- 208. Up-and-down run,
- 209. Wood,
- 210. Coal,
- 211. Oil—
- 212. Air injected,
- 213. Gas injected,
- 214. Oil and steam injected—
- 215. Air,
- 216. Acetylene—
- 217. Slow,
- 218. Treatment of calcium carbid,
- 219. Carbureting,

49.—GLASS.*
- 1. **Combined machines—**
- 2. Incandescent-lamp making,
- 3. Sheet and plate making—
- 4. Flattening and annealing.
- 5. Charging, cutting, and molding
- 6. Shaping and cutting,
- 7. Reheating and reshaping,
- 8. Pressing and blowing—
- 9. In separate molds—
- 10. Internal press-mold,
- 11. Descending mold-bottom,
- 12. Casting and blowing—
- 13. In separate molds.
- 14. **Miscellaneous.**
- 16. **Pin-heading.**
- 17. **Drawing—**
- 17.1. Cylinders.
- 18. **Blowing—**
- 19. Traveling mold,
- 20. Manipulating blow-iron,
- 21. Tools.

* See Definitions of Revised Classes.

49.—GLASS—Continued.
- 22. Reshaping—
- 23. Neck-forming—
- 24. Tools—
- 25. Divided mandrel,
- 26. Crimping,
- 27. Spreading or flaring.
- 28. **Perforating.**
- 29. **Molding—**
- 30. Curved pipes and tubes,
- 31. Vertical pipes and tubes,
- 32. Wire-glass,
- 33. Rolling—
- 34. Bed and roller,
- 35. Presses—
- 36. Screw-threading,
- 37. Traveling mold,
- 38. Fluid-operated,
- 39. Casting.
- 40. **Mold-coolers.**
- 41. **Mold supports and carriers.**
- 42. **Mold-separating devices—**
- 43. Drawing core.
- 44. **Flattening.**
- 45 **Annealing—**
- 46. Furnaces—
- 47. Conveying.
- 48. **Cutting hard glass—**
- 50. Heat-applying,
- 52. Tools.
- 53. **Heating apparatus—**
- 54. Tank-furnaces—
- 55. Delivering,
- 56. Separate gathering-pool,
- 57. Reheating-furnaces—
- 58. Work-manipulating,
- 59. Pot-furnaces,
- 60. Melting-pots,
- 61. Floats.
- 62. **Gathering and ladeling.**
- 63. **Batch-mixers.**
- 65. **Molds—**
- 66. Uniting parts,
- 67. Bending,
- 68. Cooling or heating,
- 69. Blowing—
- 70. Labeling,
- 71. Vented,
- 72. Pressing—
- 73. Laterally-separable sides,
- 74. Helically separable
- 75. Clamping,
- 76. Cores and plungers.
- 64. **Snaps and sockets.**
- 15. **Tools.**
- 77. **Processes—**
- 77.5. Slag.
- 78. Incandescent-lamp making,
- 78.1. Quartz glass,
- 79. Combined—
- 80. Molding and blowing,
- 81. Uniting parts—
- 82. Glass to glass—
- 82.1. Bifocal lenses,
- 83. Blowing,
- 83.1. Drawing,
- 84. Reshaping,
- 85. Molding—
- 86. Wire-glass,
- 87. Sheets and plates,
- 88. Heat-developed coloring,
- 89. Annealing.
- 92. **Structure.**

50.—FLUID PRESSURE REGULATORS.*
- 1. **Combined regulators and cut-offs—**
- 2. Valve-balancing,
- 3. Liquid-transfer,
- 4. Diaphragm—
- 5. Lever,
- 6. Float—
- 7. Lever,
- 8. Piston—
- 9. Lever.
- 10. **Multiple regulating devices—**
- 11. Auxiliary valve—
- 12. Venting.

Regulators—
- 13. Balanced pressure,
- 14. Inlet-pressure,
- 15. Outlet-pressure—
- 16. Varying resistance—
- 17. Automatic weight-varying,
- 18. Clockwork,
- 19. Liquid-transfer,
- 20. Valve-balancing,

50.—FLUID PRESSURE REGULATORS—Continued.

Regulators—Continued.

Outlet pressure—Continued.
- 21. Diaphragm—
- 22. Water-protected
- 23. Spring,
- 24. Weight,
- 25. Lever—
- 26. Spring,
- 27. Weight,
- 28. Float—
- 29. Spring,
- 30. Weight,
- 31. Lever—
- 32. Spring,
- 33. Weight,
- 34. Piston—
- 35. Spring,
- 36. Weight,
- 37. Lever—
- 38. Spring,
- 39. Weight.

51.—GRINDING AND POLISHING.
- 1. **Abrading materials and tools—**
- 19. Manicuring.
- 20. Match-scratchers.
- 17. **Boots and shoes.**

File cleaning and resharpening—
- 18. Sand-blast.

Glass and stone—
- 3. Curved surfaces,
- 11. Plane surfaces.

Metal—
- 2. Card-grinding,
- 4. Curved surfaces,
- 6. Cutlery-scourers,
- 7. Edge-tools,
- 8. Mower and reaper knives,
- 9. Needle-eyes,
- 10. Needles, rods, and points,
- 12. Plane surfaces,
- 14. Rumbles,
- 15. Sheet-metal and wire,
- 16. Strops, hones, and rifles.

Wood—
- 5. Curved surfaces,
- 13. Plane surfaces.

52.—EXPLOSIVES.
- 1. **Blasting-powder.**
- 2. **Fulminates.**
- 4. **Gunpowder.**
- 5. **Matches.**
- 3. **Nitro compounds.**
- 6. **Pyrotechnic compounds.**

53.—DOMESTIC COOKING VESSELS.

Boilers—
- 1. Domestic—
- 2. Steamers.
- 3. **Coffee and tea pots.**
- 4. **Corn-poppers.**
- 5. **Gridirons.**
- 11. **Heat-insulated.**

Pans—
- 6. Bake,
- 7. Frying.
- 8. **Pots and kettles.**
- 9. **Teakettles.**
- 10. **Waffle-irons**

54.—HARNESS.*
- 1. **Miscellaneous.**
- 71. **Breaking and training devices—**
- 72. Leg-spreaders.
- 77. **Ox-yokes.**
- 2. **Track.**
- 3. **Yokes.**
- 24. **Halters—**
- 85. Connectors.
- 6. **Bridles—**
- 7. Bits—
- 8. Mouthpieces—
- 9. Double,
- 10. Blinds—
- 11. Covering and uncovering,
- 12. Brow-bands,
- 13. Crown-loops,
- 14. Gag-runners,
- 15. Stranglers.
- 57. **Underchecks.**

54.—HARNESS—Continued.
- 16. **Checkreins—**
- 17. Hook-loops.
- 61. **Check-hooks—**
- 62. Movable keeper.
- 70. **Checking and unchecking devices.**
- 35. **Martingales.**
- 36. **Reins.**
- 74. **Rein-holds.**
- 63. **Terrets.**
- 73. **Rein-guards.**
- 34. **Hitching-straps.**
- 64. **Hitching-strap holders.**
- 18. **Combined collar and hames.**
- 19. **Collars—**
- 20. Breast,
- 21. Fasteners.
- 25. **Hames—**
- 26. Fasteners—
- 29. Top,
- 27. Lever,
- 28. Strap.
- 30. **Hame and trace connectors—**
- 31. Adjustable.
- 32. **Hame-tugs—**
- 33. Adjustable.
- 58. **Breast-straps—**
- 59. Shields and connectors.
- 50. **Thill-tugs—**
- 51. Open.
- 52. **Traces—**
- 53. Whiffletree-connectors.
- 54. **Trace-carriers—**
- 55. Hook.
- 56. **Trace-end supporters.**
- 69. **Attaching and detaching devices.**
- 37. **Saddles—**
- 38. Harness—
- 39. Cart,
- 40. Pivoted side plates,
- 41. Cushions,
- 42. Seat and tree connectors,
- 43. Tug-bearers,
- 44. Riding—
- 45. Side,
- 46. Attachments.
- 47. **Stirrups—**
- 49. Safety,
- 48. Elastic.
- 23. **Girths.**
- 4. **Back-bands.**
- 5. **Breeching.**
- 22. **Crupper.**
- 65. **Pads—**
- 66. Back,
- 67. Neck,
- 68. Fasteners.
- 87. **Loops.**

Trimmings—
- 75. Covered,
- 76. Ornamental.
- 78. **Tail-holders.**
- 79. **Blankets.**
- 80. **Bonnets and shields.**
- 81. **Fly-nets.**
- 82. **Horse-boots.**
- 83. **Spurs.**
- 84. **Supports.**

55.—HARROWS AND DIGGERS.
- 1. **Clod-crushers—**
- 21. Barred and corrugated rollers—
- 77. Disks,
- 22. Crush-bars,
- 23. Crush-bars and harrows,
- 24. Toothed rollers and wheels—
- 78. Geared.
- 3. **Harrows—**
- 80. Center-hinged,
- 29. Changeable form,
- 30. Disk—
- 122. Center cutter,
- 81. Pivoted gang—
- 82. Center cutter,
- 83. Multiple gang,
- 124. Pivot-swung,
- 31. Expansible—
- 125. V-shaped,
- 32. Flexible,
- 84. Multiple,
- 11. Revolving—
- 126. Center-hinged,
- 85. Geared,
- 13. Rotary,
- 152. Spiral,
- 33. Spring-tooth—
- 127. Weeders,
- 86. Tooth-bars,

* See Definitions of Revised Classes.

55.—HARROWS AND DIGGERS—Con.

Harrows—Continued.
34. Tooth-cleaners,
149. Trailing tooth,
128. V-shaped,
19. Wheel—
87. Center-hinged,
73. Disk,
88. Floating,
89. Multiple,
90. Pivoted tooth-bar,
91. Riding attachments,
20. Rotary,
74. Spring—
92. Pivoted tooth-bar,
75. Trailing teeth,
93. Winged,
150. Winged.

Harrow-teeth—
35. Spike—
94. Clamped,
95. Nutted,
96. Wedged,
36. Spring—
97. Sectional,
37. Trailing and draw-cut.

5. **Hoes**—
38. Adjustable,
98. Blades—
99. Integral shank,
100. Integral socket,
39. Compound—
40. Adjustable,
101. Handles,
41. Horizontal—
42. Adjustable,
43. Interchangeable,
44. Toothed blades,
45. Weeding.

6. **Land-rollers**—
46. Furrowers and markers,
47. Pivoted,
48. Weighted cylinders,
49. Weighted frames.

7. **Pivoted teeth.**
8. **Pivoted tooth-bars**—
76. Frameless,
102. Lever-actuated—
103. Spike-tooth—
129. Yielding bar,
104. Spring-tooth,
105. Trailing tooth,
130. Spring-tooth,
131. Yielding bar.

9. **Potato-diggers**—
50. Bearing-wheel separators,
106. Beet-lifters,
107. Cutters,
51. Endless carrier—
132. Platform inferior,
133. Platform superior,
134. Plow pivoted independently,
135. Plow pivoted on carrier front,
136. Plow pivoted on carrier rear,
137. Plow rigid,
138. Rakes,
108. Graspers,
54. Plow and screen—
139. Plow rigid,
53. Plow-clearers—
109. Reels,
55. Plow, vibrating screens—
110. Cam—
140. Plow rigid,
111. Crank—
141. Plow rigid,
142. Plow rigid,
112. Sidewise—
143. Plow rigid,
113. Tappet—
144. Plow rigid,
57. Screen-cylinders;
56. Sifting-wheels, side delivery,
58. Spiral conveyers,
59. Toothed drum.

10. **Rakes**—
114. Heads.
145. Sweepers,
146. Tooth-cleaners.

12. **Rollers and harrows.**
Stalk-choppers—
60. Draw cut,
63. Reciprocating,
Revolving—
61. Horizontal—
118. Breakers,
62. Vertical,
64. Vine-cutters.

Stalk-pullers—
65. Hand—
148. Tongs,
66. Wheel.

17. **Stone-gatherers.**

55.—HARROWS AND DIGGERS—Con.

18. **Transplanters**—
119. Ballers,
67. Dibbles,
68. Pivoted jaws,
70. Posthole-diggers—
71. Pivoted jaws,
69. Sliding jaws,
Wheel-machines—
120. Tree-conveyers.

56.—HARVESTERS.*

1. **Miscellaneous.**
2. **Convertible**—
3. Cutter and detachable conveyer—
Rake—
4. Vertical axis,
5. Cutter and detachable catcher.
6. **Gang**—
7. Rotating cutting-reel.
8. **Marine**—
9. With conveyer.
10. **Motor**—
11. Cotton—
12. Pneumatic—
13. Individually directed,
14. Pickers,
15. Cornstalk type—
16. Cutters with choppers and catchers,
17. Cutters with strippers or toppers,
18. Pickers or huskers,
19. Seed gatherers or strippers,
Cutting, conveying, and threshing—
20. Reciprocating cutter—
21. Central swath, coaxial wheels,
22. Cutting, conveying, and binding,
23. Cutting and conveying—
24. Rotating cutting-reel,
25. Cutting only—
26. Rotating cutting-reel,
27. Gathering.
28. **Cotton**—
29. Flail or whip,
30. Pneumatic—
31. Individually directed,
32. Nozzles,
33. Strippers—
34. Comb—
35. Moving,
36. Pickers—
37. Individually directed—
38. Endless belt—
39. Manually operated,
40. Rotary or oscillating—
41. Spindle—
42. Belt-carried—
43. Cam-track guide,
44. Rotary carrier—
45. Flexible spindle,
46. Reciprocating,
47. Cam-track guide,
48. Drum,
49. Endless belt,
50. Spindles.
51. **Cornstalk type**—
52. Stalk-breakers,
53. Cutters—
54. Broom-corn—
55. Reel-gatherer,
56. Toppers with catchers—
57. Reel-gatherer—
58. Horizontal axis,
59. Endless-chain gatherer,
60. With choppers—
61. With catchers,
62. With strippers,
63. With toppers,
64. With pickers or huskers—
65. Reel-gatherer,
66. Endless-chain gatherer,
67. Self-binders—
68. Upright binder—
69. Endless-chain gatherer—
70. Binder position adjustable,
71. With dischargers—
72. Crane type—
73. With gatherers—
74. Reel,
75. Endless chain,

56.—HARVESTERS—Continued.

Cornstalk type—Continued.
Cutters—Continued.
With dischargers—Con.
76. Endless apron—
77. Reel-gatherer,
78. Endless-chain gatherer,
79. Horizontally moving and tilting—
80. With gatherers—
81. Reel,
82. Endless chain,
83. Tilting—
84. With gatherers—
85. Spiral,
86. Reel—
87. Horizontal axis,
88. Endless chain,
89. Fixed,
90. Retracting support—
91. Reel-gatherer,
92. Reel-gatherer,
93. Endless-chain gatherer,
94. With gatherers—
95. Spiral,
96. Reel—
97. Horizontal axis,
98. Endless chain,
99. Fixed—
100. Fixed cutter,
101. Fixed cutter.
102. Cutting members,
103. Pickers or huskers—
104. Roller—
105. Plurality of rows—
106. With endless-chain gatherers only,
107. Auxiliary ear-detacher—
108. With endless-chain gatherers only,
109. Movable gatherer—
110. Spiral,
111. Endless chain only—
112. Adjustable roller-frame,
113. Fixed snapper—
114. Comb—
115. With knife,
116. Moving comb,
117. Moving knife—
118. On endless chain,
119. Gatherers or guides,
120. Sheaf-loaders,
121. Sheaf-carriers.

122. **Cutting, conveying, and threshing**—
123. Reciprocating cutter—
124. Central swath, coaxial wheels,
125. Longitudinally-hinged cutter-frame.

126. **Seed gatherers or strippers**—
127. Fixed comb—
128. Rotary beater—
129. Central swath, coaxial wheels,
130. Moving comb.

131. **Cutting, conveying, and binding**—
132. Wire-twister type,
133. Straw-band type,
134. Folding platform,
135. High outside binder—
136. Folding binder-frame,
137. Binder position adjustable—
138. Knotting,
139. Knotting,
140. Upright binder,
141. Endwise delivery—
142. Knotting,
143. Low down—
144. Curved path—
145. Knotting,
146. Inside delivery—
147. Knotting,
148. Outside delivery—
149. Through bull-wheel,
150. Knotting,
151. Knotting,
152. Knotting.

153. **Cutting and conveying**—
154. Endless cutter.
155. Oscillating cutter,
156. Rotary cutting-reel,
157. Rotary cutting-disk,
158. Reciprocating-cutter type—
159. Folding platform,
160. With binder's platform—
161. Self-raking mechanism—
162. Belt-carried endless path,
163. Hand raking mechanism—
164. Self-raking mechanism—
165. Gaveling-tongs,
166. Dumping-catcher,

* See Definitions of Revised Classes.

56.—**HARVESTERS**—Continued.
Cutting and conveying—Con.
Reciprocating-cutter type—Con.
Self-raking mechanism—Con.
167. Rotating—
168. Reciprocating head,
169. Vertical axis—
170. Switch—
171. Automatic control—
172. Auxiliary manual control,
173. Reciprocating—
174. Belt-actuated—
175. Reciprocating belt,
176. Vertical circuit—
177. Belt-carried,
178. Horizontal circuit—
179. Belt-carried,
180. Rake heads and arms,
181. Endless carrier—
182. Deflected course,
183. Intermittent,
184. With discharging catcher,
185. Elevated delivery,
186. Central cutter, coaxial wheels—
187. Tilting platform—
188. Pivoted tongue,
189. Swathing attachments,
190. Wind-shields,
191. Binders' platforms.
192. **Cutting and windrowing.**
193. **Cutting and raking.**
194. **Cutting and catching**—
195. Side cutter—
196. Rear,
197. Front,
198. Rotating cutting-reel—
199. Catchers—
200. Discharging,
201. Manually propelled,
202. Catchers—
203. Discharging—
204. Revolving,
205. Upwardly-swinging rear gate,
206. Rearwardly-dropping member.
207. **Shelled-grain catchers.**
208. **Platform adjustments**—
209. Sidehill,
210. Main frame—
211. Traction-operated,
212. Vertically and longitudinally tilting—
213. Simultaneous vertical adjustment,
214. Vertical—
215. Segment rack and pinion—
216. Simultaneous.
217. Simultaneous.
218. **Tongue adjustments and supports.**
219. **Standing-grain gatherers**—
220. Rotating reel, horizontal axis—
221. Adjustable position—
222. With driving means—
223. Sliding angular gear,
224. Belt with adjustable tension,
225. Concentric,
226. Supplementary bat movement,
227. Adjustable bats.
228. **Transporting attachments.**
229. **Cutting**—
230. Railroad—
231. Rotating cutting-reel,
232. Reciprocating cutter,
233. Hedge or plant-row trimmers—
234. Plurality of cutters—
235. All-rotary disk,
236. All reciprocating,
237. Single cutter for top or side,
238. Successive cuts at different heights,
239. Hand-operated cutter—
240. Oscillating—
241. Single pair of shears,
242. Reciprocating—
243. Hand-crank,
244. Endless cutter—
245. Side cut,
246. Oscillating cutter—
247. Vertical cut,
248. Side cut,
249. Rotating-cutting-reel type—
250. Sharpening,
251. Auxiliary cutter,
252. Cutter in front of wheel-tread
253. Coaxial wheels central cut—
254. Internal gear single pinion,

56.—**HARVESTERS**—Continued.
Cutting—Continued.
255. Rotating-cutting-disk type—
256. Vertical cut,
257. Reciprocating central cutter—
258. Coaxial wheels—
259. Double sickle,
260. Pitman-drive—
261. With lever,
262. Cam-drive—
263. With lever,
264. Reciprocating side cutter—
265. Through-wheel drive,
266. Reversible,
267. Horizontally folding,
268. Rear cut—
269. Coaxial wheels—
270. Cam or lever drive,
271. Front cut—
272. Coaxial wheels—
273. Power-operated lift,
274. Automatic clutch-shipper,
275. Double sickle,
276. Lifting and rocking cutter-bar—
277. With foot-lever—
278. Gag-lever—
279. Cutter-bar mountings only,
280. Cutter-bar mountings only,
281. Gag-lever,
282. Cutter-bar mountings only.
283. Lifting cutter-bar—
284. Cutter-bar mountings only—
285. With foot-lever,
286. Gag-lever,
287. Cutter-bar mountings only,
288. Alinements,
289. Cutter members—
290. Endless—
291. Horizontal orbit—
292. With tension adjustment,
293. Oscillating,
294. Rotating cutting-reel,
295. Rotating cutting-disk,
296. Reciprocating—
297. Double sickle,
298. Sickles and guard fingers and bars,
299. Sickles—
300. Detachable sections—
301. Detachable from end of bar,
302. Auxiliary locking-bar,
303. Shoes and knife-heads,
304. Antifriction devices,
305. Guiding-clips,
306. Shock-absorbers,
307. Guard fingers and bars—
308. Modified finger—
309. With ledger-plate,
310. Fingers only—
311. With ledger-plate.
312. Supplemental lifting-fingers—
313. Socket for guard-finger point,
314. Track-clearers and dividers—
315. Supplemental vertical cutter—
316. Reciprocating,
317. Driven,
318. With shoe-point socket,
319. Foldable,
320. Supplemental clearer.
321. **Anti-side draft devices.**
322. **Grain wheels and casters.**
323. **Seats.**
324. **Grain-cradles.**
325. **Scythes**—
326. Blades.
327. **Vegetable gatherers.**
328. **Fruit-gatherers**—
329. Catchers,
330. Berry-strippers,
331. Berry-clippers,
332. Pole-supported—
333. Pivoted jaw—
334. Chute,
335. Pivoted knife—
336. Chute,
337. Sliding jaw,
338. Sliding knife,
339. Fixed detaching member—
340. Chute.
341. **Raking and bundling**—
342. Hand,
343. Cord-knotter type.

56.—**HARVESTERS**—Continued.
344. **Raking and loading**—
345. Endless carrier—
346. Intermittent discharge—
347. With movable feeder—
348. Stationary rake-teeth,
349. Stationary rake-teeth,
350. Rear delivery—
351. With movable feeder—
352. Stationary rake-teeth
353. Stationary rake-teeth,
354. Side delivery—
355. With movable feeder—
356. Stationary rake teeth,
357. Stationary rake-teeth,
358. With movable feeder—
359. Stationary rake-teeth,
360. Stationary rake-teeth,
361. Intermittent discharge,
362. Walking-rake—
363. Auxiliary rake,
364. Lifting-reels.
365. **Combined rakes and tedders**—
366. Side-delivery rake,
367. Revolving rake,
368. Draft dumping-rake,
369. Transverse tedder crank-shaft,
370. **Tedders**—
371. Mower attachment,
372. Rotary, transverse axis,
373. Transverse crank-shaft,
374. Tedder-forks.
375. **Horse-rakes**—
376. Side delivery—
377. Rotary,
378. Rear delivery—
379. Revolving—
380. Wheel-supported—
381. Fixed rake-axis,
382. Rake-tooth-engaging stop.
383. Rake-tooth-engaging stop.
384. Wheel-supported—
385. Contractible,
386. Draft-dumpers—
387. Direct draft,
388. Frictional,
389. Spur-gear,
390. Sliding bolt or bar,
391. Pawl and ratchet—
392. Transverse torsion-rod.
393. Hand-lever pulled back to dump.
394. Hand-lever concentric with rake-head,
395. Clearers,
396. Wheel-supported—
397. With lifting means—
398. Draft-operated,
399. Fenders,
400. Rake-teeth and fastenings.
401. **Shockers**—
402. Automatic feed—
403. Self-binding—
404. Vertical position—
405. Automatic shock-delivery trip—
406. Oscillating sheaf-delivery member.
407. Sheaf turned end for end,
408. Forwardly-tilting shock—
409. Automatic shock-delivery trip,
410. Vertical position—
411. Rotary, vertical axis—
412. Automatic shock-delivery trip—
413. Oscillating sheaf-delivery member,
414. Automatic shock-delivery trip—
415. Alternating sheaf-delivery,
416. Alternating sheaf-delivery,
417. Sheaf turned end for end—
418. Automatic shock-delivery trip,
419. Forwardly-tilting shock—
420. Automatic shock-delivery trip—
421. Number,
422. Feed stopped during shock-delivery,
423. Rearwardly-opening former,
424. Shock turned end for end,
425. Vertical position—
426. Rotary, vertical axis,
427. Direct drop,
428. Divided former,
429. Self-binding,
430. With compressor,
431. Props.

56.—HARVESTERS—Continued.
- 432. **Compressing and binding**—
- 433. Cord-knotter type—
- 434. Adjustable position—
- 435. Knotting,
- 436. Pressure-tripped—
- 437. Upstanding compressor control—
- 438. Packing—
- 439. Knotting,
- 440. Packing—
- 441. Knotting,
- 442. Knotting,
- 443. Packing—
- 444. Knotting,
- 445. Knotting,
- 446. Packers,
- 447. Auxiliary manual trip,
- 448. Needle cleaners and guards,
- 449. Ejectors and discharge-gates,
- 450. Tension and take-up devices,
- 451. Wire-twister type—
- 452. Single wire—
- 453. Curved binder-arm—
- 454. Laterally mounted,
- 455. Forked end,
- 456. Twister on binder-arm,
- 457. Twisters,
- 458. Band-tucker type—
- 459. Straw band—
- 460. Band-forming—
- 461. Rotating bundle,
- 462. Band-formers,
- 463. Prepared band,
- 464. Cord band and clip—
- 465. Flat-metal clip.
- 466. **Grain-adjusters**—
- 467. On deck—
- 468. Head or butt evener—
- 469. Oscillating,
- 470. Endless apron,
- 471. Feeders,
- 472. Retarding-arms,
- 473. Longitudinally-moving straightening-finger.
- 474. **Sheaf-carriers**—
- 475. Automatic discharge—
- 476. Directly tilting,
- 477. Endless carrier,
- 478. Folding tines,
- 479. Opening bottom,
- 480. Directly tilting.

57.—HOISTING.
- 34. **Block and tackle.**
- 116. **Raising and lowering, automatic check and release.**
- 18. **Skids.**
- 19. **Stump-extractors.**

58.—HOROLOGY.*
- 1. **Miscellaneous.**
- 2. **Clocks**—
- 3. Astronomical,
- 4. Calendar—
- 5. Dial,
- 6. Roller,
- Geographical—
- 43. Disk,
- 44. Globe,
- 45. **Magic,**
- 50. **Illuminated,**
- 23. **Electric**—
- 24. Systems,
- 25. Primary,
- 26. Secondary—
- 27. Escapement,
- 28. Balance,
- 29. Pendulum—
- 30. Actuated,
- 31. Regulated,
- 32. Synchronizers,
- 33. Circuit-controllers,
- 34. Hand-setters—
- 35. Systems,
- 36. Opposed lever,
- 37. Sliding connection,
- 38. Striking—
- 39. Intermittent signal,
- 40. Winding—
- 41. Self,
- 42. Pneumatic,

58.—HOROLOGY—Continued.
Clocks—Continued.
- 7. Trains—
- 8. Striking—
- 9. Cam-controlled,
- 10. Repeating—
- 11. Double snail,
- 12. Musical,
- 13. Chimes,
- 14. Graphophone,
- 15. Turn-backs,
- 16. Alarm—
- 17. Eight-day,
- 18. Repeating,
- 19. Electric—
- 20. Let-off—
- 21. Alarm winding-arbor,
- 22. Let-off,
- 46. Winding—
- 48. Motors, spring,
- 51. Leveling devices,
- 52. Frames,
- 53. Cases—
- 54. Cylindrical,
- 55. Materials,
- 56. Supports.
- 57. **Watches**—
- 58. Calendar,
- 106. Toy,
- 74. Stop—
- 75. Split seconds,
- 76. Couplers, pivoted,
- 77. Couplers, sliding,
- 78. Positive—
- 79. Balance-stop,
- 60. Repeaters—
- 61. Double snail—
- 62. Trains,
- 59. Movements,
- 63. Stem winding and setting—
- 64. Lever-set—
- 65. Clutch,
- 66. Yoke,
- 67. Pendant-set—
- 68. Clutch,
- Yoke,
- 69. Double gear—
- 70. Cam,
- 71. Lever,
- 72. Single gear,
- 73. Stem-winding,
- 80. Winding—
- 82. Self-winders,
- 81. Lever,
- 83. Overwinding-preventers,
- 84. Attached keys,
- 85. Indicator
- 86. Barrels—
- 87. Mainspring-fasteners,
- 88. Cases—
- 89. Convertible,
- 90. Dust-proof,
- 91. Bezels,
- 92. Centers—
- 93. Integral,
- 94. Movement-rings,
- 95. Pendants—
- 96. Bow-fasteners—
- 97. Pin or screw,
- 98. Sleeve,
- 99. Stem-fasteners,
- 100. Screw,
- 101. Springs—
- 102. Cover connections,
- 103. Hinges,
- 104. Plates,
- 105. Protectors.
- 106.5. **Antimagnetic devices.**
- 107. **Balances**—
- 108. Compensating,
- 109. Regulating—
- 110. Compensating,
- 111. Rack and pinion,
- 112. Screw,
- 113. Curb-pins,
- 114. Hair-springs—
- 115. Collets and studs.
- 116. **Escapements**—
- 117. Balance—
- 118. Chronometer,
- 119. Cylinder,
- 120. Duplex,
- 121. Lever—
- 122. Straight line,
- 123. Pendulum—
- 124. Gravity.
- 125. **Dial-trains.**
- 126. **Dials and hands.**
- 127. **Dials**—
- 128. Shifting figures.
- 129. **Pendulums**—
- 130. Metronome,
- 131. Torsion,
- 132. Regulating,

58.—HOROLOGY—Continued.
Pendulums—Continued.
- 133. Compensation,
- 134. Beat-adjusters,
- 135. Balls.
- **Safety-wheels**—
- 136. Barrel,
- 137. Center.
- 138. **Cannon-pinions.**
- 139. **Arbors and pinions.**
- 140. **Staffs and bearings.**

59.—CHAIN, STAPLE, AND HORSESHOE MAKING.*
- 1. **Chain-making**—
- 2. Bead-chain,
- 3. Loop-interlocked,
- 4. Roller-chain,
- 5. Sprocket-chain—
- 6. Sheet metal,
- 7. Link-assembling,
- 8. Blanks and processes,
- 9. Swivel-making,
- 10. Weldless—
- 11. Link separation,
- 12. Blanks and processes,
- 13. Sheet metal—
- 14. Prong-connected,
- 15. Stamping and bending,
- 16. Combined machines—
- 17. Coiling, cutting, bending, curbing,
- 18. Feeding, cutting, bending, welding,
- 19. Feeding, cutting, bending, wrapping,
- 20. Coiling, cutting, assembling,
- 21. Bending and eye-forming,
- 22. Bending and welding,
- 23. Cutting and bending—
- 24. Automatic feed—
- 25. Link-assembling,
- 26. Winding and welding,
- 27. Bending,
- 28. Curbing,
- 29. Sizing and trimming,
- 30. Swaging and shaping,
- 31. Welding—
- 32. Rotary feed,
- 33. Dies,
- 34. Holding devices,
- 35. Blanks and processes.
- 36. **Horseshoe-making**—
- 37. Combined machines—
- 38. Cutting, bending, shaping, punching, and creasing—
- 39. Calk and clip bending and forming,
- 40. Reciprocating jaw or die-block—
- 41. Reciprocating punch and creaser,
- 42. Rotary die-block—
- 43. Rotary punch and creaser,
- 44. Bending, shaping, punching, and creasing—
- 45. Reciprocating jaw or die-block—
- 46. Reciprocating punch and creaser,
- 47. Rotary die-block—
- 48. Rotary punch and creaser,
- 49. Cutting, bending, shaping—
- 50. Reciprocating die-block,
- 51. Rotary die-block,
- 52. Bending and shaping—
- 53. Reciprocating die-block,
- 54. Rotary die-block,
- 55. Shaping, punching, and creasing,
- 56. Bending,
- 57. Punching and creasing,
- 58. Swaging and shaping,
- 59. Trimming and bur-removing,
- 60. Dies and tools,
- 61. Processes,
- 62. Blanks and bars—
- 63. Rolling—
- 64. Processes,
- 65. Calk and clip bending, forming, sharpening, welding,
- 66. Calk-making—
- 67. Blanks and bars,
- 68. Processes,
- 69. Calks.
- 70. **Ox-shoe making.**
- 71. **Staple-making**—
- 72. Sheet metal,
- 73. Cutting, bending, barbing,

* See Definitions of Revised Classes.

59.—CHAIN, STAPLE, AND HORSE-SHOE MAKING—Continued.
Staple-making—Continued.
74. Cutting, bending, point-forming,
75. Cutting and bending—
76. Rotary former,
77. Blanks and processes.
78. **Chains**—
79. Elastic,
80. Ornamental—
81. Multistrand roller,
82. Links,
83. Wire,
84. Links—
85. Detachable—
86. Shackles,
87. Double lap—
88. Pivoted,
89. Pivoted closure,
90. One-piece—
91. Sheet metal,
92. Wrapped and twisted,
93. Attachments—
94. Hooks and grabs,
95. Swivels.
96. **Key-holders**—
97. Flexible,
98. One-piece,
99. Rotary and sliding closures.

60.—POWER PLANTS.*
1. **Miscellaneous.**
2. **Combined with heater**—
3. Heating water—
4. By furnace-gases and steam,
5. By steam.
6. **Combined types**—
7. With mechanical motor—
8. Gravity—
9. Oscillating,
10. Rotary,
11. Internal combustion and turbine—
12. Fluid transmission,
13. Reexpansion,
14. Internal combustion and fluid-pressure—
15. Reexpansion,
16. Convertible,
17. Boosting—
18. Convertible pump,
19. Fluid transmission,
20. Fluid-pressure and turbine—
21. Reexpansion.
22. **Buoyancy.**
23. **Expansion and contraction**—
24. Hot-air type—
25. With vapors.
26. **Utilizing natural heat.**
27. **Internal generation**—
28. Combustion—
29. Exhaust treatment—
30. Fluid-mingling,
31. Cooling,
32. Suction,
33. Hot air,
34. Cooling,
35. Special motive fluid.
36. **Special motive fluid**—
37. Chemical,
38. Separate fluids.
39. **Mixed fluids**—
40. Turbine—
41. Combustion products—
42. Water injected,
43. Semicompound,
44. Combustion products—
45. Water injected—
46. Flasher,
47. Semicompound—
48. Automatic.
49. **Separate fluids.**
50. **Chemical.**
51. **Hydraulic type**—
52. Fluid transmission—
53. Rotary—
54. Turbine,
55. Turbine—
56. Heated.
57. **Pneumatic type**—
58. Reexpansion,
59. Heated,
60. Vacuum,
61. Convertible pump,
62. Fluid transmission.
63. **Hot-air charged.**

60.—POWER PLANTS—Continued.
64. **Exhaust treatment**—
65. Reexpansion—
66. Tapping—
67. Turbine,
68. Convertible,
69. Multiple motor—
70. Turbine,
73. Turbine,
88. Delivery to furnace,
89. Tapping,
90. Flue ejection—
91. With cooling,
92. Regeneration,
93. Fluid-mingling—
94. Liquid,
95. Cooling—
96. By air.
97. **Multiple motor**—
102. Turbine.
104. **Superheating.**
105. **Regulation**—
106. Furnace and feed-water,
107. Feed-water.
108. **Turbine.**

61.—HYDRAULIC AND EARTH ENGINEERING.*
1. **Water control**—
2. Channels—
3. Forming and preserving—
4. Jetties, groins, and breakwaters—
4. Portable,
5. Fluid breakwaters,
6. Canals—
7. Locks—
8. Lifting,
9. Drainage—
10. Substratum,
11. Irrigation—
12. Subirrigation,
13. Flumes—
14. Sheet metal,
15. Culverts,
16. Intakes,
17. Spillways,
18. Power—
19. Tide and wave,
20. Fishways,
21. Watergates—
22. Uniform discharge,
23. Horizontally swinging,
24. Vertically swinging—
25. Overflow,
26. Collapsible,
27. Sliding,
28. Removable,
29. Dams and levees—
30. Cores,
31. Hollow,
32. Tension stayed,
33. Coffer-dams.
34. **Earth control**—
35. Solidifying or thawing earth—
36. Revetments—
37. Matresses,
38. Retaining-walls,
39. Shafts—
40. Shaft-lining and excavation-sheathing,
41. Tunnels—
42. Sectional,
43. Subways,
44. Tunnel-lining.
45. **Stable structures in shifting media**—
46. Cribbing,
47. Wharves—
48. Retaining-wall type,
49. Foundations—
50. Underpinning,
51. Pier,
52. Piles—
53. Protected—
54. Wood and concrete,
55. Concrete—
56. Formed in situ,
57. Sheet-piling—
58. Concrete,
59. Metallic—
60. [and I sections,
61. Head-and-claw interlock.
62. **Apparatus**—
63. Dry-docks—
64. Lifting,
65. Keel and bilge blocks,
66. Marine ways,
67. Ship-caissons,

61.—HYDRAULIC AND EARTH ENGINEERING—Continued.
Apparatus—Continued.
69. Diving—
70. Suits—
71. Rigid elements,
72. Pipe and cable laying,
73. Pile-drivers—
74. Monkey,
75. Swinging hammer,
76. Piston,
77. Caps, bands, and followers,
78. Preparatory piles—
79. Expanding core,
80. Water-jet,
81. Caissons—
82. Portable,
83. Air-locks,
84. Tunnel—
85. Shields.

62.—REFRIGERATION.*
1. **Miscellaneous.**
2. **Automatic control**—
3. Compressor-condenser-expander circuit—
4. Motor control,
5. Still-circuit,
6. Chamber-cooler,
7. Fluid-cooler,
8. Expander.
Body-coolers—
9. Ice-receptacle.
10. **Butter-dishes.**
11. **Tables.**
12. **Rinks.**
13. **Wagons, ice.**
14. **Ships, ice.**
15. **Cars, ice**—
16. Top and end ice-box,
17. Top ice-box,
18. Central ice-box,
19. End ice-box—
20. Drip-cooled,
21. Cooled air-tubes,
22. Bottom ice-box,
23. Ice-casing,
Ice-box—
24. Air-pump circuit.
Cars—
25. Liquefied gas.
26. **Buildings, ice**—
27. Top ice-box—
28. Drip-cooled,
29. Central ice-box,
Ice-box—
30. Air-pump circuit.
31. **Refrigerators, ice**—
32. Barrel—
33. Liquid-cooler,
34. Bottle—
35. Gravity-feed,
36. Sideboard,
37. Display,
38. Liquid-cooler—
39. Filter—
40. Drip-tank,
41. Pressure,
42. Flat plate,
43. Coil—
44. Bottle type,
45. Top ice-box,
46. Top ice-box—
47. Valved—
48. Door-operated,
49. Rotary,
50. Superposed,
51. End—
52. Drip-tank,
53. Drip-cooled—
54. Drip-tube,
55. Drip-tank—
56. Filter,
57. Drip-casing,
58. Central ice-box—
59. Rotary,
60. Drip-tank,
61. End ice-box
62. Drip-cooled,
63. Bottom ice-box.
64. Valved—
65. Door-operated,
66. Drawer-operated,
67. Ice-cooled air-pipe,
68. Ice-casing,
69. Ice-tank,
70. Drip-cooled,
71. Elevator,
72. Air-pump circuit,

* See Definitions of Revised Classes.

62.—REFRIGERATION—Continued.
Refrigerators, ice—Continued.
73. Evaporative,
74. Scale,
75. Receptacle—
76. Bottle—
77. Rotary,
78. Corpse,
79. Liquid-cooler,
80. Top ice-box—
81. Superposed,
82. Drip-cooled,
83. Central ice-box—
84. Drip-cooled,
85. End ice-box.
86. Bottom ice-box,
87. Ice-casing,
88. Covers.
89. **Refrigerators—**
90. Evaporative—
91. Receptacle,
92. Liquefied gas—
93. Absorber,
94. Chemical,
95. Indirectly cooled,
96. Air-cooled—
97. Expansion in chamber—
98. Expansion-motor,
99. Surface-cooler—
100. Corpse,
101. Liquid-circuit,
102. Air-pump circuit,
103. Condenser,
104. Liquid-contact cooler.
105. **Ice-making apparatus—**
106. Freezers—
107. Spray,
108. Tank,
109. Atmospheric—
110. Tank,
111. Separator—
112. Heated cutter,
113. Can-heater.
114. **Congelation apparatus.**
115. **Compressor - condenser - expander circuit—**
116. Refrigerator type—
117. Car
118. **Still-condenser-expander circuit—**
119. Absorber.
120. **Absorbing-still condensing-expander.**
121. **Gas-solidifiers.**
122. **Gas liquefiers and separators—**
123. Expansion-motor.
124. **Liquid-separators.**
125. **Liquefaction and expansion—**
126. Expanders—
127. Expansion-valves.
128. **Air and liquid coolers.**
129. **Air-coolers—**
130. Ice—
131. Air-pump,
132. Contact—
133. Air-pump,
134. Indirect,
135. Air-pump—
136. Expansion-motor—
137. Condenser,
138. Water-contact,
139. Evaporative,
140. Condensers.
141. **Liquid-coolers—**
142. Ice—
143. Bottle type,
144. Barrel,
145. Filter,
146. Contact,
147. Tube,
148. Flat plate,
149. Agitator,
150. Expansion-motor,
151. Film-plate,
152. Vacuum—
153. Hygroscopic,
154. Evaporative—
155. Pressure,
156. Air-pump,
157. Tank—
158. Gas expansion,
159. Air injected,
160. Cooling-liquid circuit—
161. Agitator,
162. Spur-tube,
163. Vertical plate—
164. Thawer,
165. Bottom plate,
166. Agitator,
167. Thawer.
168. **Evaporative coolers—**
169. Vacuum.

62.—REFRIGERATION—Continued.
170. **Processes—**
171. Cooling-chambers,
172. Ice-making.
173. Congelation—
174. Ice-cream,
175. Liquefaction of gases,
176. Cooling air,
177. Cooling liquids,
178. Cooling by vaporization

63.—JEWELRY.*
1. **Combination articles.**
2. **Miscellaneous.**
3. **Bracelets—**
4. Chain,
5. Expansible—
6. Two-part,
7. Single hinge—
8. Spring,
9. Multiple hinge,
10. Swiveled,
11. Resilient.
12. **Ear-rings—**
13. Pendent jewel,
14. Non-piercing.
15. **Finger-rings—**
16. Adjustable and divided,
17. Guards.
18. **Lockets—**
19. Hinged covers.
20. **Ornamental pins.**
21. **Watch and chain attachments—**
22. Bars,
23. Charms,
24. Safety watch-guards—
25. Automatically operated.
26. **Gem-settings—**
27. Crown,
28. Multiple,
29. Detachable—
30. Exhibiting,
31. Movable.
32. **Gems.**

64.—JOURNAL-BOXES, PULLEYS, AND SHAFTING.
27. **Axles, lubricating.**
4. **Belt-shifters—**
51. Lifters.
5. **Belt-tighteners.**
7. **Compensating journals.**
41. **Gudgeons.**
21. **Idle-pulley supports.**
10. **Journal-boxes—**
52. Bodily movable,
20. Brasses,
19. Compositions,
53. Eccentric adjustment,
47. Fluid-support,
22. Guards,
23. Lids,
24. Lubricating—
31. Band-applying,
32. Centrifugal,
28. Coolers,
46. Materials for feeding oils,
33. Roller-applying—
34. Elastically supported,
56. Vertical spindle,
35. Yieldably-supported pads,
54. Rocking adjustment,
48. Vertical spindle, automatic centering,
55. Wear-compensating.
17. **Pulleys—**
43. Air-escape rims,
8. Expansible,
40. Grip,
26. Lubricating,
45. Non-metallic rim-coverings,
18. Split.
Roller-bearings—
36. Ball—
57. Antifrictionally spaced,
58. Retained,
59. Spaced,
37. Ball and cylinder,
38. Cylinder—
39. Circular series—
61. Antifrictionally spaced,
62. Spaced,
60. Toothed.

64.—JOURNAL-BOXES, PULLEYS, AND SHAFTING—Continued.
89. **Rotary-shaft couplings—**
90. Angular adjustment,
91. Flexible or tumbling connections—
102. Double Y,
101. Flange and rigid pin,
92. Geared shaft-sections,
94. Intermediate angled pin,
93. Intermediate crank,
95. Intermediate linked section,
97. Link or band,
96. Resilient,
98. Shaft-to-gear type—
99. Friction-grip,
100. Resilient,
103. T-head and socket,
105. Frangibly-connected arm, collar or pulley,
106. Friction-grip,
107. Inserter,
104. With journal.
12. **Shaft-casings.**
14. **Shaft-hangers.**
29. **Shafting—**
30. Flexible.
72. **Spindle-bearings—**
78. Bolster,
73. Combined—
77. Adjustable,
75. Laterally resilient,
74. Post,
76. Rocking,
80. Roller,
79. Step.
25. **Thrust-bearings—**
49. Ball,
50. Cylinder.
84. Vehicle center-bearings—
85. Ball,
86. Cylinder.
87. **Truck-bearings—**
63. Ball,
64. Cylinder,
65. Rocker.
66. **Wheel-mounts—**
68. Movable—
71. Laterally-movable wheel,
70. Pivoted,
69. Universal,
67. Quick wheel release,
81. Shaft-driven wheel.

65.—KITCHEN AND TABLE ARTICLES.
5. **Casters—**
55. Rotary.
10. **Compound tools.**
45. **Condiment-holders—**
57. Pulverizing.
12. **Culinary.**
13. **Cups—**
58. Collapsible.
16. **Dish-covers.**
61. **Dish-stands.**
15. **Dishes and plates—**
59. Covered,
60. Pivoted covers.
20. **Dust pans—**
62. Brush attachments,
63. Foot-pieces.
22. **Egg-cups.**
25. **Fruit-lifters.**
28. **Ladles.**
29. **Napkin-holders.**
31. **Pitchers—**
67. Compartment,
66. Spaced wall.
65. **Racks and rests.**
36. **Scoops.**
46. **Stopper-extractors—**
47. Hook,
48. Screw—
49. Lever-operated,
50. Rotary,
51. Screw and lever.
53. **Trays—**
54. Attaching devices.

66.—KNITTING AND NETTING.
19. **Circular machines—**
20. Dial,
21. Independent needles—
22. Dial -
23. Fashioning,
24. Fashioning,
25. Looper pin and hook.

* See Definitions of Revised Classes.

66.—KNITTING AND NETTING—Con.
17. Crocheting.
3. Darning.
4. Fabrics.
12. Feeding.
26. Loopers, sinkers, and web-holders.
5. Needles.
6. Netting.
27. Rotary burs and sinkers.
7. Stopping.
29. Straight machines—
29. Cams and stops,
30. Fashioning,
31. Looper pin and hook.
9. Take-ups and tensions.
10. Tatting.
32. Transferring devices.
33. Traverse warp-machines.
34. Warp and weft machines.

67.—ILLUMINATING-BURNERS.*
1. Miscellaneous.
2. Combined gas and vapor.
3. Igniting devices—
4. Cigar—
4.1. Pyrophoric,
5. Hydrogen-platinum,
6. Implements—
6.1. Pyrophoric,
7. Pocket—
7.1. Pyrophoric,
9. Lamp—
10. Fulminating,
10.1. Pyrophoric,
11. Aperture,
12. Match-scratchers,
13. Separable,
14. Gaseous—
15. Conducting-tube,
16. Pilot—
Pressure-operated—
17. Multiple fluid,
18. Single fluid,
19. Catalytic,
20. Fulminating,
20.1. Pyrophoric.
21. Solid fuel—
22. Candles,
23. Candlesticks—
24. Extinguishers,
25. Candelabra,
26. Miners',
27. Maintained flame-level,
28. Flash-lights—
29. Shutter release and light,
30. Hoods,
31. Electric ignition,
32. Flame ignition,
33. Fulminant ignition,
34. Magnesium-strip type.
35. Liquid fuel—
36. Burners—
37. Vapor—
38. Blue-flame wick type,
39. Multiple fluid,
40. Retort—
41. Starters,
42. Heating-jet—
43. Air-mixing,
44. Heat-conducting—
45. Air-mixing,
46. Air-mixing—
47. Internal,
48. Overlying,
49. Side,
50. Inverted,
51. Floating,
52. Forced draft,
53. Wick type—
54. Multiple,
55. Chimneyless,
56. Argand—
57. Lateral air-inlet,
58. Central draft—
59. Drawbar,
60. Rack-bar,
61. Screw-rod,
62. Swiss screw,
63. Air-distributers,
64. Returned wick,
65. Wick-raisers,
66. Wick-stops,
67. Wick-inserters,
68. Wick-trimmers,
69. Wicks—
70. Multiple piece,
71. Glass cone,
72. Air-distributers,

67.—ILLUMINATING-BURNERS—Continued.
Liquid fuel—Continued.
Burners—Continued.
73. Extinguishers—
74. Fuel exhaustion,
75. Pneumatic,
76. Liquid,
77. Mechanical—
78. Cap,
79. Double wing,
80. Sliding sleeve,
81. Fonts—
82. Independent,
83. Collars,
84. Drip-catchers,
85. Filling devices,
86. Vents.
87. Gaseous-fuel burners—
88. Incandescent—
100. Mantle-making,
89. Calcium-light type,
90. Pressure—
91. Self-intensifying,
92. Resilient support,
93. Combined upright and inverted,
94. Inverted,
95. Inclined,
96. Upright—
97. Preheater,
98. Mantles,
99. Mantle compositions,
101. Mantle-support—
102. Inclosed,
103. Inverted,
104. Resilient,
105. Acetylene,
106. Annular,
107. Multiple fluid,
108. Regenerative—
109. Gas,
110. Intermittent—
111. Self-operated,
112. Tips,
113. Automatic cut-offs—
114. Draft,
115. Pressure,
116. Thermostatic—
117. Self-setting,
118. Regulating—
119. Automatic,
120. Fixed,
121. Manual.

68.—LAUNDRY.
1. Bosom-boards.
2. Clamps.
34. Clothes-driers.
12. Clothesline-fasteners.
14. Clothesline-reels.
3. Clotheslines.
5. Clothes-pounder.
6. Clothes sticks and tongs.
7. Fluting-irons.
8. Hand-rubbers.
9. Ironing-machines.
10. Ironing-tables.
11. Laundries.
13. Mangles.
27. Sadiron-holders.
26. Sadirons.
28. Starching-machines.
35. Washbenches.
29. Washboards.
30. Washboilers.
Washing-machines—
15. Agitator,
16. Boiler,
17. Combined washing and wringing,
18. Cylinder,
37. Miscellaneous,
19. Pounder,
20. Reciprocating rubber,
21. Rocking and swinging,
22. Roller,
23. Roller and bed,
24. Rotary rubber.
31. Washtubs.
33. Wringer-rolls.
32. Wringers.

69.—LEATHER MANUFACTURES.*
1. Machines—
1.5. Belt-stretching,
3. Horse-collar shaping,
4. Horse-collar stuffing,
17. Strap-finishing,

69.—LEATHER MANUFACTURES—Continued.
Machines—Continued.
18. Tack-leathering,
2. Cutting and impressing,
6. Rounding,
7. Seam-pressing,
8. Forming and pressing,
9. Skiving and splitting—
9.5. Rotary tubular knife,
10. Belt-knife,
16. Rotary disk knife,
15. Reciprocating knife,
11. Fixed knife—
12. Reciprocating feed,
13. Roller-feed—
14. Trimming attachments.
19. Work-holders.
20. Tools.
21. Articles and processes.

70.—LOCKS AND LATCHES.
7. Key-fasteners—
65. Portable.
8. Keyhole-guards—
61. Sliding and pivoted.
9. Keys.
Latches—
51. Gravity,
44. Lifting,
42. Sliding.
15. Lock-strikes—
52. Electric.
16. Lock-trimmings.
14. Locks—
2. Bag,
90. Bicycle,
4. Car-seat,
46. Cylinder—
92. Multiple key,
91. Cylinder-knob,
50. Electric—
63. Combination,
62. Time,
128. For levers—
130. Hand-cranks,
129. Hand-wheels,
131. H-slot,
132. Quadrant and lever-carried latch,
126. For multiple controlling means—
127. With circuit-controller,
5. Hasp,
122. Incasing—
123. Valve,
6. Indicator,
74. Multiple bolt,
69. Multiple key—
70. Adjustable tumbler,
71. Master-key,
72. Primary and secondary,
20. Piano,
47. Pin—
93. Multiple key,
75. Pivoted tumbler,
23. Seal—
95. Seals,
31. Sliding door,
76. Sliding tumbler,
79. Systems of locks,
25. Till,
26. Time,
73. Trap,
27. Trunk—
115. Swinging hasp,
77. Tumbler and dog,
124. Valve—
125. With padlock,
78. Without tumblers.
29. Locks and latches combined.
17. Padlocks—
104. Divided shackle,
110. Indicator—
111. Pivoted shackle,
19. Permutation—
112. Pivoted shackle,
113. Sliding shackle,
96. Pin,
105. Pivoted shackle—
106. Sliding bolt,
107. Rotating shackle,
97. Seal,
108. Sliding shackle.
18. Permutation—
56. Dials,
55. Hasp,
66. Keyhole-guards,
58. Knob-pins,
57. Operating-handle,

* See Definitions of Revised Classes.

70.—LOCKS AND LATCHES—Con.
Permutation—Continued.
54. Push-pin,
53. Rotating tumblers,
60. Sliding tumblers,
59. Spindles,
67. Till-locks.
117. **Seal-buckles.**
24. **Shackles.**
102. **Sliding-door fasteners.**

71.—FERTILIZERS.
1. **Apparatus.**
10. **Bacterial.**
9. **Compositions.**
6. **Organic.**
7. **Phosphates.**
8. **Sewage and night-soil.**

72.—MASONRY AND CONCRETE STRUCTURES.*
0.5. **Miscellaneous.**
1. **Buildings**—
6. Elevators and bins,
7. Vaults.
7.1. **Monuments, markers, and guards**—
7.2. Monuments,
7.3. Markers.
8. **Bridges.**
9. **Cisterns.**
10. **Cellars**—
11. Caves.
12. **Wells.**
13. **Tanks**—
14. Lined.
51. **Conduits**—
52. Culverts,
53. Pipes—
54. Lined and covered.
82. **Poles and posts**—
83. With bases—
84. Detachable,
85. Reinforced.
90. **Smoke-flues**—
91. Block,
92. Sectional,
93. Stacks,
94. Lined,
95. Bases.
96. **Stairs.**
15. **Building elements and supports, integral.**
15.5. **Checker-bricks.**
16. **Walls**—
17. Faced—
18. Tile—
19. Wall-anchored—
20. Metal-reinforced,
21. Bonded,
22. Flexible-backed,
23. Rigid-backed,
24. Framed,
25. Interlocking,
26. Faced elements,
27. Monolithic—
28. Metal-reinforced,
Block and plastic—
29. Plastic-filled—
30. Metal-reinforced,
31. Plastic-covered—
32. Metal-reinforced,
33. Wood and plastic,
Block—
Faced—
35. Attached,
36. Integral,
37. Solid—
38. Interlocked,
39. Angular,
40. Metal-reinforced,
41. Hollow—
42. Metal-reinforced,
43. Parallel-spaced—
44. Metal-reinforced,
45. Fiber,
Monolithic—
46. Partition,
47. Hollow—
48. Metal-reinforced,
49. Solid—
50. Metal-reinforced,

72.—MASONRY AND CONCRETE STRUCTURES—Continued.
55. **Arches**—
56. Bridge—
57. Metal-lined,
58. Fireplace,
59. Girders—
60. Plastic-filled,
61. Metal-reinforced,
63. Floor—
64. Bridge,
65. Tile and concrete—
66. Metal-reinforced,
67. Tile—
68. Metal-reinforced,
69. Concrete—
70. Externally metal-reinforced,
71. Internally metal-reinforced.
97. **Doors.**
98. **Sills and jambs.**
99. **Windows.**
100. **Manholes and covers.**
86. **Coping**—
87. Borders,
88. Chimney-caps,
89. Vault.
72. **Columns**—
73. Tile-covered,
74. Plastic-covered,
75. Plastic-filled,
76. Metal-reinforced.
77. **Foundations.**
101. **Bonding and tying**—
102. Bonding,
103. Ties,
104. Clamps,
105. Fixing-blocks,
106. Joints—
107. Block,
108. Anchors and sockets.
109. **Reinforcing elements**—
115. Studding,
116. Lathing—
121. Corner-beads,
119. Wire—
120. Furring and fastening,
117. Expanded metal,
118. Furring and fastening,
110. Compound,
111. Bars—
112. Attached shear members,
113. Integral shear members,
114. Joints,
122. Spacers.
123. **Plastering**—
124. Plaster-boards,
125. Ornaments.
Waterproofing—
126. Cellars,
127. Walls.
128. **Implements**—
129. Bricklaying-machines,
130. Plastering-machines,
131. Running-molds,
134. Hods,
135. Hawks,
136. Trowels and floats,
137. Scrapers,
138. Pointers.

73.—MEASURING INSTRUMENTS.
2. **Anemometers.**
4. **Barometers.**
5. **Bathometers.**
184. **Calorimeters.**
11. **Coin-testers.**
Dry measurers—
131. Bulk-controlled,
137. Weight-controlled.
Gages—
54. Water—
82. Float.
20. **Grain-tallies.**
24. **Hygroscopes.**
Instruments—
151. Miscellaneous.
62. **Measuring vessels**—
165. Capacity adjustable,
166. Depth-indicating.
167. **Meters**—
1. Air and gas,
12. Diaphragm,
98. Disk,
28. Oscillating,
30. Piston,
68. Proportional,
37. Rotary,
45. Spirit.

73.—MEASURING INSTRUMENTS—Continued.
185. **Pressure derivatives**—
186. Mean effective pressure,
187. Work and power.
31. **Pressure-gages**—
109. Bourdon,
110. Diaphragm,
111. Piston.
122. **Ships' logs.**
44. **Sphygmoscopes.**
112. **Spirometers.**
50. **Testing illuminating fluids.**
51. **Testing-machines.**
52. **Thermometers**—
118. Metallic,
119. Oven,
32. Pyrometers.
21. **Tollers.**
120. **Ullage-rods.**
55. **Weather-vanes.**

74.—MACHINE ELEMENTS.
105. **Automatic guards.**
62. **Belts**—
63. Laminated,
64. Link,
65. Metal-reinforced,
66. Round,
67. Woven wire.
1. **Cams and eccentrics.**
107. **Combined motor and transmission control.**
5. **Cranks and levers**—
88. Controller-checks,
38. Cranks and wrist-pins,
81. Foot-levers,
39. Hand-levers—
82. Handle-bar supported,
33. Handles,
83. Interlocking.
108. **Cylinders and pistons**—
109. Packing.
6. **Fly-wheels.**
56. **Gear-casings.**
7. **Gearing**—
50. Alternating rotary,
21. Belt—
51. Guides,
26. Frictional,
57. Interchangeably locked—
58. Slidable gears,
59. Slidable keys,
101. Pivoted supports—
102. Windmill turn-table,
34. Planetary—
99. Compensating—
100. Locked,
35. Eccentric,
36. Screw,
40. Screw and nut,
28. Sectional,
95. Speed-controlled—
97. Ratio-changing,
96. Reversing,
31. Sprocket—
61. Expansible,
32. Sprocket-chains—
49. Connectors,
42. Endless belt,
43. Solid link,
44. Solid link and coupler,
41. Teeth and bodies,
29. Yieldable.
8. **Gibs and keys.**
84. **Guides**—
85. Cylindrical,
86. Lubricated,
87. Roller.
78. **Gyroscopes.**
53. **Intermittent-grip devices**—
54. Ratchet,
55. Strap and dog or ball.
13. **Machine-brakes**—
45. Centrifugal speed-regulators,
69. Dash-pots,
70. Electrically operated,
46. Stop mechanisms,
37. Strap.
14. **Mechanical movements**—
89. Speed-controlled—
91. Hit and miss,
92. Intermittent grip,
90. Trip,
79. Steering-gear type—
80. Adjustable shaft.
106. **Motor-vehicle power-jacks.**
20. **Overcoming dead-centers.**
16. **Pawls and ratchets**—
60. Noiseless.

*See Definitions of Revised Classes.

74.—MACHINE ELEMENTS—Continued.
- 17. Pitmen—
- 71. Counterbalanced,
- 47. Longitudinally-adjustable rod,
- 48. Longitudinally yieldable.
- 27. Racks and pinions.
- 98. Reciprocating carriage-motions.
- 104. Rocker-bearings.
- 52. Set-screw guards.
- 93. Trips—
- 94. Speed-controlled.
- 103. Universal joint and pivoted supports.

75.—METALLURGY.
- 1. Alloys.
- 14. Iron and steel direct—
- 73. Bricks,
- 74. Flux,
- 75. Gases,
- 76. Slag,
- 77. Sponge.
- 15. Lead.
- 197. Miscellaneous.
- 19. Pigment.
- 22. Quicksilver.
- 17. Reducing and separating—
- 58. Aluminum,
- 62. Copper,
- 59. Desilverizing lead,
- 60. Desulfurizing ores,
- 61. Disintegrating ores,
- 63. Flux,
- 64. Gold and silver,
- 85. Manganese,
- 66. Nickel and cobalt,
- 65. Ore bricks,
- 183. Sodium.
- 18. Solution and precipitation—
- 67. Chlorination,
- 185. Cyanids,
- 69. Ferric salts,
- 70. Parting bullion,
- 198. Pickling.
- 28. Spelter—
- 153. Processes.
- 27. Treating molten iron—
- 44. Air, steam, or gases,
- 45. Alloys,
- 46. Basic,
- 87. Basic linings,
- 47. Granulating,
- 48. Oxids,
- 49. Physic,
- 50. Scrap,
- 51. Vacuum.
- 55. Utilizing tin-scrap—
- 56. Wet processes.

76.—METAL TOOLS AND IMPLEMENTS—MAKING.*
- 1. Miscellaneous.
- 12. File-cutting—
- 13. Rasp-punching,
- 14. Swaging.
- 15. Trip-operated cutter—
- 16. Blow-controlled,
- 17. Idle cutter, hammer-operated—
- 18. Blow-controlled,
- 19. Pressers,
- 20. Beds and clamps,
- 21. Cutter-heads,
- 22. Feeding—
- 23. Screw-operated,
- 24. Processes.
- 25. Saw-making—
- Stretching—
- 26. Hammer,
- 27. Roller,
- Tooth-forming—
- 28. Chisel-cutting,
- 29. Die-cutting,
- Sharpening and gumming—
- 30. Die-cutting,
- 31. Reciprocating tool—
- 32. Gin-saws,
- 33. Traveling tool-carriage,
- 34. Clamp-feed,
- 35. Tooth-engaging feed,
- 36. File-holders and guides,

76.—METAL TOOLS AND IMPLEMENTS—MAKING—Continued.
Saw-making—Continued.
Sharpening and gumming—Con.
- 37. Rotating tool—
- 38. Spiral,
- 39. Switch-cam feed,
- 40. Pivoted gate,
- 41. Sliding gate,
- 42. Pivoted saw-carriage,
- 43. Sliding saw-carriage,
- 44. Milling,
- 45. Disks and cutters,
- 46. Dressing, jointing, and gaging,
- 47. Dressing and jointing—
- 48. Circular saw,
- 49. Compressing,
- 50. Rotary tool,
- 51. Swaging—
- Pivoted swage—
- 52. Lever-operated,
- Sliding swage—
- 53. Lever-operated,
- 54. Cam-swage,
- 55. Idle swage,
- 56 Tools,
- 57. Anvils,
- 58. Setting—
- 59. Rotary set,
- 60. Screw-operated set,
- Pivoted set—
- 61. Multiple,
- 62. Trip,
- 63. Lever-operated—
- 64. Pliers,
- 65. Idle,
- Sliding set—
- 66. Multiple,
- 67. Trip,
- 68. Lever-operated—
- 69. Pliers,
- 70. Idle,
- 71. Spring-set,
- 72. Swage-set,
- 73. Anvil-set,
- 74. Guides,
- 75. Feeding—
- 76. Clamp-feed,
- 77. Tooth-engaging feed,
- 78. Clamps—
- 79. Center supports,
- 80. Tooth-inserters.

Machines—
- 2. Auger—
- 3. Clearing and lip-cutting,
- 4. Die-forming,
- 4.4. Type or matrix forming—
- 4.5. Type-bar,
- 5. Drill forming and sharpening,
- 6. Eye-headed tool—
- 7. Ax—
- 8. Adjustable header,
- 9. Socket, strap, and tang tool,
- 10. Wrench,
- 11. Blank-splitting.
- 82. Cutting sharpeners—
- 83. Skate,
- 84. Butchers' steels,
- 85. Rotary,
- Multiple cutter—
- 86. Converging—
- 87. Disks,
- 88. Cutter and guide—
- 89. Disk.
- 90. Dies—
- 91. Augers,
- 92. Axes, hammers, and hatchets,
- 93. Cutlery—
- 94. Forks and spoons,
- 95. Drills,
- 96. Hoes, mattocks, and picks,
- 97. Pitchforks and rakes,
- 98. Pliers and tongs,
- 99. Shovels,
- 100. Wrenches.
- 101. Blanks and processes—
- 102. Augers,
- 103. Axes, hammers, and hatchets,
- 104. Cutlery—
- 105. Forks and spoons,
- 106. Hollow handles,
- 107. Dies,
- 107.4. Types or matrices—
- 107.6. Making ready,
- 107.5. Type-bars,
- 108. Drills,
- 109. Hoes, mattocks, and picks,
- 110. Keys,
- 111. Pitchforks and rakes.
- 112. Saws,
- 113. Shovels,
- 114. Wrenches.

77.—BORING AND DRILLING.*
- 37. Tapping mains—
- 38. Closed tool-chamber—
- 39. Multiple tool-holder,
- 40. Valved—
- 41. Permanent—
- 42. Annular cutter.

Boring-machines—
- 1. Miscellaneous,
- 2. Portable,
- 3. Horizontal,
- 4. Vertical.

Drilling-machines—
- 5. Miscellaneous,
- 6. Independent motor,
- 7. Portable—
- 8. Rail-drills—
- 9. Quick-setting,
- 10. Ratchet,
- 11. Clamp-frames,
- 12. Clamped, drilling, and tapping,
- 13. Clamped—
- 14. Chain,
- 15. Flexible shaft,
- 16. Bow,
- 17. Cord-and-spring drive,
- 18. Center drills,
- 19. Bench,
- 20. Post,
- Multiple spindle—
- 21. Axially opposite,
- 22. Parallel axes—
- 23. Circular gang,
- 24. Independent adjustment,
- 25. Turret,
- 26. Radial axes,
- 27. Radial—
- 28. Vertically-adjustable arm,
- 31. Angular-spindle adjustment,
- 29. Friction-drive,
- 30. Treadle-feed,
- 82. Feed mechanisms—
- 33. Automatic stop,
- 34. Frictional,
- 35. Back-gears,
- 36. Counterweights.
- 43. Ratchet-drills, combination.
- 44. Ratchet-drills—
- 45. Self-feeding,
- Double-acting—
- 46. Axially-swinging lever,
- 47. Transversely-swinging lever,
- 48. Reversible,
- 49. Axially-yielding clutch,
- 50. Band-grip,
- 51. Sliding pawl,
- 52. Wedging-pawl—
- 53. Roller-grip,
- 54. Feed-screws.
- 55. Appliances—
- 56. Boring-bars—
- 57. Feed devices,
- 58. Boring-heads,
- 59. Drill-braces,
- 60. Drill-holders,
- 61. Non-circular cut,
- 62. Jigs,
- 63. Work-supports—
- 64. Indexing.
- 65. Drills, combined—
- 66. Drills and countersinks.
- 67. Drills—
- 68. Oil-conduit,
- 69. Annular,
- 70. Twist,
- 71. Tangs.
- 72. Reamers—
- 73. Pipe-bur,
- 73.5. Countersinks,
- 75. Adjustable—
- 75.5. Wedge—
- 76. Central cone.

78.—METAL FORGING AND WELDING.*
- 1. Forging—
- 45. Toothed articles,
- 55. Tire-upsetting—
- 56. Circumferential,
- 57. Pivoted clamp—
- 58. Single lever,
- 59. Sliding clamp,
- 46. Riveting—
- 47. Calking,
- 48. Machines—
- 49. Special,
- 50. Work-supported,
- 51. Pipe,
- 52. Plate-clamping,
- 53. Rotating tool,

* See Definitions of Revised Classes.

78.—**METAL FORGING AND WELDING**—Continued.
Forging—Continued.
Riveting—Continued.
53.5. Rivet-holders,
54. Riveted joints,
9. Billet-piercing—
10. Fixed mandrel,
11. Rotary mandrel or billet,
12. Processes,
13. Power hammers and presses—
13.1. Stippling,
14. Pipe-swaging,
16. Spoke-securing,
15. Shrinking,
17. Upsetting,
18. Die-inclosed work,
19. Traveling,
20. Hammer-anvil—
21. Cam-operated—
22. Adjustable dies,
23. Helved,
24. Multiple hammer,
25. Drop—
26. Cam-lift—
27. Sliding head,
28. Crank-lift,
29. Friction-lift,
30. Winding-lift,
31. Helved—
32. Crank-operated,
33. Olivers,
34. Revolving hammer,
35. Screw-operated,
42. Fluid-operated,
36. Sliding head—
37. Adjustable guides,
38. Cam-operated,
39. Crank-operated—
40. Cushioned,
41. Toggle-operated,
43. Cushioned elements,
44. Anvils,
3. Anvil-vises—
4. Foot,
5. Anvils—
6. Special work,
7. Attachments—
8. Vises,
60. Dies—
64. Carriage-irons—
65. Axles and axle-boxes,
66. Clips and shackles,
67. Fifth-wheels,
68. King-bolts,
68.5. Plow and cultivator irons,
70. Eyebars and eyebolts,
72. Leather-workers' irons,
73. Railway-car irons—
74. Axles and axle-boxes,
75. Drawbars and couplings,
76. Railway-track irons,
77. Spinners' and weavers' irons,
78. Springs and spring-clips,
79. Turnbuckles,
80. Wheels,
61. Upsetting—
62. Heading-bars,
63. Tubular articles,
81. Processes.
82. **Welding**—
83. Tubes—
84. Cross-weld—
85. Rolling,
86. Spiral weld,
87. Rolling—
88. Rolls and mandrel,
89. End-closing,
90. Rolling,
91. Welding-strips,
92. Processes
93. Dissimilar metals,
94. Rings and tubes,
95. Blooms.
96. **Work-handling mechanism**—
97. Wire or strip feeding,
98. Feeding and rotating,
99. Blank-feeding,
100. Shifting,
101. Supports—
102. Tables.
103. **Mandrels.**

79.—**BUTTON-MAKING.***
1. **Miscellaneous.**
2. **Shank-buttons.**
3. **Metallic**—
4. Covered—
5. Cloth.

79.—**BUTTON-MAKING**—Continued.
Pearl and composition—
6. Surfacing and drilling,
7. Surfacing—
8. Tool-sharpening,
9. Multiple chuck,
10. Trimming,
Drilling—
Multiple spindle—
11. Axially opposite,
12. Multiple chuck,
13. Single chuck,
Single spindle—
14. Single chuck,
15. Blank-sawing—
16. Tubular saw.
17. **Blank-feeders.**
18. **Work-supports.**

80.—**METAL-ROLLING.***
1. **Miscellaneous.**
2. **Heating and rolling.**
3. **Cutting and rolling.**
4. **Drawing and rolling.**
5. **Annular bodies.**
5.1. **Nuriing.**
6. **Screw-threads**—
7. Concave and roll,
8. Platen-rolling—
9. Dies,
10. Rods and wires.
11. **Tubes**—
12. Idle rolls,
13. Axial rolling,
14. Segmental rolls,
15. Skelping.
16. **Wheels and disks.**
17. **Reworking.**
18. **Concave and roll.**
19. **Platen and roll.**
20. **Platen-rolling**—
21. Disk platens.
22. **Axial rolling**—
23. Pattern-rolls.
24. **Die-rolling**—
25. Oscillating rolls,
26. Blank feeding and gaging,
27. Continuous,
28. Three or more coacting rolls,
29. Advancing and receding rolls,
30. Recurrent pattern.
31.1. **Mills**—
32. Coiling,
33. Work-reversing,
34. Three or more coacting rolls,
35. Continuous—
36. Inclined trains,
37. Loop return,
38. Auxiliary supporting-rolls,
39. Three-high,
40. Idle rolls.
41. **Roll cooling and heating.**
42. **Cooling-beds.**
43. **Feeding**—
44. Tables—
45. Horizontally and vertically movable,
46. Horizontally movable,
47. Vertically movable,
48. Shifters—
49. Horizontally and vertically movable carrier,
50. Swinging carrier,
51. Guides and conductors—
52. Loop return,
53. Work-rotating.
54. **Gearing.**
55. **Housings.**
56. **Roll adjustments**—
57. Relief devices.
58. **Rolls**—
59. Pass arrangement.
60. **Processes**—
61. Screw-threads,
62. Tubes,
63. Rods and wires,
65. Reworking,
66. Flanged bars.

81.—**TOOLS.***
1. **Miscellaneous.**
2. **Combined wrenches and pumps or oilers.**
3. **Special**—
4. Engravers' clamps,

81.—**TOOLS**—Continued.
Special—Continued.
3.1. Fruit-jar type—
3.2. Holders—
3.3. With bottom support,
5. Tweezers,
6. Watchmakers'—
7. Jewel-setters',
7.5. Mainspring-winders,
8. Ruby-pin setters,
9.1. Sealing.
9.3. **Hose-clamp appliers.**
9.5. **Wire-strippers.**
10. **Nut-lock.**
13. **Bolt-holders.**
15. **Bending.**
17. **Vises**—
18. Hand,
19. Round work,
20. Turret,
21. Pivoted jaw—
22. Wedge-shaped work,
23. Adjustable fulcrum—
24. Rack,
25. Cam,
26. Sliding-jaw, cam,
27. Rack-lock—
28. Toothed nut—
29. Sectional,
30. Pivoted rack-catch,
31. Sliding rack-catch,
32. Nut-operated,
33. Screw-operated—
34. Multiple intergeared,
35. Right and left threads,
36. Displaceable nut or screw,
37. Interrupted thread,
38. Jaw attachments—
39. Round work,
40. Wedge-shaped work,
41. Mounts,
42. Parallel mechanisms.
53. **Wrenches**—
54. Machine—
55. Bolt-holding—
56. Gear-operated,
57. Gear-operated,
71. Inserted—
72. Expanding,
74. Wheel-operated—
75. Hub-rim grasp—
76. Internal,
Hand-grip—
78. Pivoted jaw—
79. Crossed handles—
80. Non-traveling fulcrum—
81. Pivoted gripping-piece,
82. Sliding gripping-piece,
83. Slotted fulcrum-guide,
84. Linked jaw and handle,
85. Sliding jaw—
86. Claw-lever and rack,
87. Lever and cam feed,
88. Lever and link feed,
89. Lever and pawl feed,
58. Clutched head—
59. Segmental,
60. Ratchet—
61. Pivoted pawl—
62. Reversing—
63. Single,
64. Flexible—
65. Threaded adjustment,
66. Link—
67. Claw,
68. Handle-jaw—
69. Pivoted,
70. Duplex,
73. U-crank arm,
77. Double-ended, simultaneous adjustment,
91. Multiple pivoted jaws, handle-lever grip,
92. Pivoted inner jaw—
93. Nut or screw fulcrum,
94. Pin-fulcrum—
95. Roller-jaw—
96. Pinion,
97. Spring-pressed,
Pivoted outer jaw—
Fixed fulcrum—
98. Non-traveling jaw—
99. Spring-pressed,
100. Traveling jaw—
101. Nut-fulcrum,
102. Rocking sleeve—
103. Spring-pressed—
104. Fulcrum-washer,
105. Sleeve-inclosed nut,
106. Traveling fulcrum—
107. Threaded handle-bar—
108. Axially rotating,
109. Slotted guide,
110. Fulcrum-tooth and rack,

* See Definitions of Revised Classes.

81.—TOOLS—Continued.
Wrenches—Continued.
111. Pivoted side jaw—
112. Bevel-closing—
113. Axial nut or screw,
114. Screw-ring,
115. Rotating ring,
116. Wedge,
117. Rocking link,
118. Transverse-screw clamp,
126. Sliding jaw, handle-lever grip—
127. Claw,
128. Sliding jaw, cam-closing,
129. Sliding adjustments—
130. Rack—
131. Interlocking jaw-handles,
132. Locking set screw or nut,
133. Pinion-lock,
134. Pivoted rack-catch—
135. Non-traveling—
136. Intermediate fulcrum,
137. Transverse,
138. Cam-seated,
139. Indirectly operated,
140. Intermediate fulcrum,
141. Shank-engaged cam,
142. Sliding rack-catch—
143. Cam-seated,
144. Screw or nut seated,
145. Spring-seated,
146. Spring-seated jaw-frame—
147. Integral frame and teeth,
148. Wedge-lock—
149. Wedge-pusher,
150. Shank-grip—
151. Side jaw,
152. Clutch-yoke,
153. Roller-clutch,
154. Locking-incline,
155. Thread—
156. Displaceable half-nut,
157. Displaceable nut or screw—
158. Traveling screw, shank-rack,
159. Interrupted—
160. Nut-set—
161. Traveling nut,
162. Traveling screw, shank-rack,
163. Right and left threads,
164. Rotating threaded shank,
165. Sliding side jaw,
166. Non-traveling nut—
166. Intermediate—
167. Sliding outer jaw,
168. Terminal—
169. Sliding outer jaw,
170. Non-traveling screw—
171. Bracket-bearing,
172. Shank-sleeved,
173. Traveling nut—
174. Threaded handle-bar,
175. Traveling screw—
176. Shank-rack,
90. Spanners,
119. Rigid jaws—
120. Round work,
121. Inclosed—
122. Watch and clock keys—
123. Dust-protectors,
124. Safety,
125. Work-holding,
177. Handles and shanks,
178. Reversible jaws,
179. Sliding jaw-face,
180. Attachments and adjuncts—
181. Cutters—
182. Rotary,
183. Roller-clutch,
184. Shank-embracing,
185. Socket-reducers,
186. Jaw-faces.
187. Pipe and rod cutters—
188. Non-traveling, internal,
189. Traveling, external—
190. Gear-operated,
191. Thread-feed—
192. Rotary handle,
193. Traveling, internal—
194. Rotary—
195. Wedge-feed,
196. Pivoted—
197. Cam,
198. Handle-jaws,
199. Toggle,
200. Intergeared handles,
201. Sliding—
202. Cam,
203. Head and socket,
204. Lever and link,
205. Rack and segment,
206. Jaw attachments.

82.—TURNING.*
1. Miscellaneous
1.1. Talking-machine tablet.
18. Pattern-section—
19. Cam-controlled cutter.
11. Axial pattern—
14. Templet-guide,
12. Profiled tool-rest,
13. Profiled cutter.
Tapers—
15. Offset work-axis,
Transversely-shifted cutter—
17. Templet-controlled,
16. Gear-controlled.
2. Lathes—
7. Pulley,
8. Wheel and axle,
9. Crank and crank-pin—
10. Oscillating work.
5. Screw-cutting—
5.5. Swinging feed-nut and tool-bar,
4. Portable,
6. Bench,
3. Multiple,
20. Hollow cutter-head,
21. Carriage-feeds—
22. Apron mechanism—
23. Feed-nut controllers,
24. Slide-rests—
25. Multiple tool-support,
26. Change-gears,
27. Feed screws and rods,
28. Head-stocks—
29. Speed-changing gear,
30. Spindles and bearings,
31. Tail-stocks,
32. Beds,
33. Centers,
34. Attachments.
Rests—
35. Tool and work,
36. Tool—
37. Tool-posts,
38. Work—
39. Center rests.
40. Work-drivers—
41. Lathe-dogs—
42. Cam-grip,
43. Mandrels—
44. Expansible.
45. Centerers.

83.—MILLS.
Amalgamators—
65. Electric,
66. Lead,
67. Mercury,
68. Plate,
69. Vacuum,
70. Vapor.
92. Assorters, miscellaneous automatic.
Bagging grain—
26. Bag-holders.
74. Chip-graders.
Chop-graders—
50. Bran-dusters, beaters,
51. Bran-dusters, brushes,
49. Electric purifiers,
42. Flour processes,
40. Gravity,
39. Rotary bolts,
38. Shaking-bolts.
Grain-scourers—
32. Centrifugal,
36. Concave face,
31. Conical,
30. Cylinder, horizontal,
29. Cylinder, vertical,
37. Disk face,
33. Pestle action,
35. Reciprocating and endless,
34. Screw action.
Grinding-mills—
17. Balancing millstones,
9. Ball and drum,
45. Chasing,
18. Coffee,
10. Compound movement,
13. Cone and shell,
12. Crushing-rolls,
14. Cylinder and concave,
7. Disk action, horizontal,
8. Disk action, vertical,
44. Feed-regulators,
15. Grain-samplers,
23. Hominy,

83.—MILLS—Continued.
Grinding-mills—Continued.
46. Impact-pulverizers,
6. Knife action,
1. Mill-spindles,
3. Millstone-dress,
4. Millstone-exhaust,
2. Millstone-trams,
22. Paint,
11. Rotary beaters.
91. Liquid comminuting and solidifying.
73. Mortar-mixers.
Ore and coal—
52. Coal-breakers,
53. Crushers,
63. Ice-crushers,
62. Ice picks and shavers,
Separators—
54. Dry,
58. Jiggers—
79. Piston movement,
80. Sieve movement,
71. Magnetic,
59. Washers—
81. Agitators and conveyers,
82. Classifying and separating tanks,
83. Endless apron,
84. Processes—
85. Buoyant,
86. Rotary drums, horizontal axis,
87. Rotary pans and stirrers, vertical axis,
88. Shaking-tables,
89. Stationary troughs and tables,
56. Sifters and screens—
60. Household,
57. Stamps.
Preparing grain—
28. Processes,
27. Steaming and dampening.
64. Steam-boiler and flue scrapers.
61. Sugar and salt crushers.
75. Wood and bark.

84.—MUSIC.
1. Accordions.
82. Autoharps.
Automatic instruments—
Details—
159. Cases,
160 Expression devices,
161. Selectors—
162. Note-sheets—
163. Projections,
165. Trackers,
166. Winding and rewinding,
167. Wind devices—
168. Expression,
169. Pedals,
170. General structure—
171. Cylinder,
172. Disk—
173. Self-setting,
174. Electric,
Mechanical—
175. With controller—
176. Electric,
177. Pneumatic,
178. Pneumatic—
179. Cylinder control,
180. Self-setting,
181. Keyboard-players—
182. Cases, coupling,
183. Cylinder,
184. Disk,
185. Electric,
186. Mechanical—
187. Disk control,
188. Electric control—
189. Cylinder,
190. Pneumatic control,
191. Pneumatic—
192. Cylinder-control,
193. Orchestrions—
194. Disk control,
195. Electropneumatic,
Mechanical—
196. Cylinder control,
197. Pneumatic control,
198. Pneumatic,
199. Percussion—
200. Cylinder,
201. Disk,

* See Definitions of Revised Classes.

84.—MUSIC—Continued.
Automatic instruments—Con.
Percussion—Continued.
202. Electric—
203. Disk control,
Mechanical—
204. Cylinder control,
205. Pneumatic control,
206. Pneumatic—
207. Cylinder control,
208. Spurs and picks—
209. Cylinder,
210. Disk—
211. Self-setting,
Mechanical
212. With controller—
213. Disk,
214. Pneumatic,
215. Stringed—
216. Cylinder,
217. Disk,
218. Electric—
219. Cylinder control,
Mechanical—
220. With controller—
221. Cylinder,
222. Pneumatic,
226. Pianos—
227. Cylinder,
228. Electric,
229. Electropneumatic,
Mechanical—
230. With controller—
231. Electric,
232. Pneumatic,
233. Pneumatic—
234. Cylinder control,
223. Pneumatic—
224. Cylinder control,
225. Self-setting,
235. Self-setting,
236. Wind—
237. Cylinder,
238. Disk,
Mechanical—
239. Pneumatic control,
247. Organettes—
248. Cylinder,
249. Disk,
240. Organs—
241. Cylinder,
242. Disk,
243. Electropneumatic,
Mechanical—
244. With controller—
245. Pneumatic,
246. Pneumatic.
53. **Auxiliary strings.**
120. **Banjo-bridges.**
121. **Banjos—**
122. Mutes,
123. Necks,
124. Resonators.
85. **Charts—**
86. Harmony and transposition.
7. **Clarinets and flutes.**
55. **Combined organ and piano.**
125. **Cornet-mutes.**
8. **Cornets and trumpets.**
9. **Couplers—**
126. Pneumatic.
10. **Drums—**
127. Snare.
81. **Electric actions—**
128. Couplers.
131. Sostenuto.
151. **Enharmonic devices.**
11. **Exercising devices.**
91. Hand attachments.
92. Keyboard,
93. Keyboard attachments,
94. Vocal.
87. **Finger-boards.**
132. **Guitar-bridges.**
133. **Guitars—**
134. Capo-tasto.
12. **Harmonic attachments.**
56. **Harmonic dampers—**
83. Violin.
13. **Harmonicas—**
88. Supports.
14. **Harps.**
48. **Indicators—**
150. Keyboard attachments.
15. **Insulators.**
58. **Key-holding devices.**
16. **Keys and keyboards—**
96. Touch-regulators.
49. **Knee-swells.**
17. **Leaf-turners—**
135. Spring and gravity.
136. **Mandolin-bridges.**
137. **Mandolins.**
79. **Mouthpieces.**

84.—MUSIC—Continued.
89. **Musical blocks**
Organ—
19. Actions—
95. Electropneumatic,
20. Pneumatic,
156. Valves and valve-seats,
50. Bellows,
21. Cases,
22. Pipes,
59. Stop-actions—
54. Combination,
23. Swells,
47. Wind-chests.
Organs—
90. Pedal-bass,
32. Pipe,
35. Reed—
36. Attachments for,
111. Folding,
112. With pipes,
38. Steam.
24. **Pedals—**
97. Auxiliary,
98. Guards,
99. Locks.
61. **Pianissimo devices.**
Piano—
26. Actions—
100. Dampers,
101. Flanges,
102. Frames,
103. Hammers,
60. Pedal,
104. Plectrum,
138. Agraffes,
27. Attachments,
139. Bridges,
140. Capo-tasto bars,
52. Cases—
118. Desks,
119. Fall-boards,
141. Knockdown,
149. Swells,
28. Frames,
29. Legs,
30. Sounding-boards,
144. String-plates,
40. Stringing,
67. Tuning-pins—
105. Coupling-clamp,
106. Direct pull,
107. Lever,
108. Presser-deflectors,
109. Push-rod and carrier,
110. Worm-gear.
46. **Piano-violins.**
25. **Pianos—**
142. Forte devices,
70. Sostenuto,
143. Tone-modifiers,
31. Without strings.
68. **Recording attachments.**
34. **Reed-boards.**
33. **Reeds.**
69. **Solo attachments.**
146. **Tailpieces—**
147. Reel.
41. **Transposers.**
42. **Tremolos.**
43. **Tuning instruments.**
Violin—
72. Bows,
73. Bridges,
74. Chin-rests,
75. Dampers and mutes,
78. Tuning-pegs.
44. **Violins—**
76. Practice,
115. Supports.
80. **Zithers.**
116. Keyed,
117. Picks.

85.—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS.*
1. **Bolts.**
1.5. Stay,
2. Expanding core,
2.4. Expanding sleeve—
2.8. Double wedge,
3. Pivoted end lock,
4. Lapped,
5. Threadless—
6. Axial wedge,
7. Key-lock—
8. Bifurcated,
9. Heads.

85.—DRIVEN, HEADED, AND SCREW-THREADED FASTENINGS—Con.
32. **Nuts—**
32.1. Flanged coupling,
36.5. Turnbuckles,
35. Capped,
33. Adjustable thread,
36. Threadless,
34. Blanks.
41. **Screws—**
42. Double-ended,
43. Countersinking,
44. Drive,
45. Driving contacts,
46. Threads—
47. Interrupted,
48. Rolled.
37. **Rivets—**
38. Divided,
39. Double clench,
40. Hollow.
49. **Staples.**
10. **Nails, spikes, and tacks—**
12. Horseshoe-nails,
15. Glaziers' points,
13. Multiple-pronged,
14. Double-ended,
23. Locking devices—
24. Rail-flange,
25. Rail-tread,
26. Point-spreaders,
27. Transverse key,
11. Sheet metal,
16. Tacks—
17. Strips,
18. String-nails,
22. **Threaded and indented wire,**
21. Barbed and indented,
19. Longitudinally ribbed,
20. Spiral shank,
28. Heads—
29. Pronged,
30. Points—
31. Deflecting.
50. **Washers—**
51. Removable,
52. Ornamental.
53. **Ornamental heads—**
54. Molded,
55. Clip-attached,
56. Screw-attached.

86.—AMMUNITION AND EXPLOSIVE-CHARGE MAKING.*
1. **Miscellaneous.**
Ammunition-making—
10. Caps and cartridges—
11. Paper shells—
12. Assembling,
17. Shell lining and varnishing,
19. Lubricating.
20. **Loading fireworks and bursting charges—**
21. Implements—
22. Fuse,
23. **Ammunition-loading—**
25. Loading and shell-closing—
26. Rectilinear shell-feed,
27. Rotary shell-feed,
28. Implements,
29. Filling and ramming—
30. Rammers,
31. Filling—
32. Cap and cartridge priming,
33. Implements,
36. Capping and uncapping—
37. Implements—
38. Magazine,
39. Crimping—
40. Implements,
41. Crimper-heads,
42. Bullet-patching,
43. Bullet-setting,
44. Shell-holders,
24. Implements.
45. **Feeding devices—**
46. Shell.
47. **Cartridge-packing—**
48. Belt-loading.

87.—OILS, FATS, AND GLUE.
17. **Adhesives.**
3. **Candle apparatus.**
21. **Candles.**
4. **Decomposing fats.**

* See Definitions of Revised Classes.

87.—OILS, FATS, AND GLUE—Con.
- 5. **Detergents.**
- 6. **Extracting oils.**
- 7. **Glue.**
- 9. **Lubricants.**
- 12. **Refining fat-oils.**
- 13. **Rendering.**
- 23. **Soap articles.**
- 16. **Soap manufacture.**
- 26. **Suint.**
- 19. **Wax.**

88.—OPTICS.*
- 1. **Miscellaneous.**
- 1.5. **Camera-finders.**
- **Geometrical instruments—**
- 2.2. Fiducial—
- 2.3. Single deflected image—
- 2.4. Deflection adjustment,
- 2.6. Multiple deflected image—
- 2.7. Deflection adjustment.
- 56. **Lens-testers.**
- 14. **Testing instruments.**
- 15. **Kaleidoscopes.**
- 16. **Motion-picture apparatus—**
- 16.2. Combined with sound-producers,
- 16.4. Color,
- 16.6. Multiplex,
- 16.8. Optical rectifiers,
- 17. Picture-strip—
- 18. Intermittent feed—
- 18.2. Intermittently-rotated feed-drum—
- 18.3. Geneva-gear type,
- 18.4. Intermittent-grip type—
- 18.5. Rotary,
- 18.6. Film-beater type,
- 18.7. Non-rewinding,
- 18.8. Rotary picture-disk,
- 19. Book-leaf type,
- 19.1. Unconnected picture-plates,
- 19.3. Shutters—
- 19.4. Speed-controlled,
- 19.5. Picture vehicles and elements.
- 20. **Optometers—**
- 22. Multiple lens.
- 23. **Photometers.**
- 24. **Projecting apparatus—**
- 25. Heliostats,
- 26. Magic lanterns—
- 27. Rotary slide-carrier,
- 28. View-changing devices.
- 29. **Stereoscopes—**
- 30. Album,
- 31. View-changing.
- 32. **Telescopes—**
- 33. Prismatic,
- 34. Field and opera glasses—
- 35. Folding and collapsible,
- 36. Supports—
- 37. Focusing,
- 38. Reflecting attachments.
- 39. **Microscopes—**
- 40. Accessories.
- 41. **Eyeglasses and spectacles—**
- 42. Connections,
- 43. Bridges—
- 44. Folding,
- 45. Spring—
- 46. Bar,
- 47. Lens-mounts,
- 48. Nose-grips—
- 49. Adjustable—
- 50. Automatic,
- 51. Supports,
- 52. Temples—
- 53. Connections,
- 54. Lenses,
- 55. Nose-guards.
- 57.5. **Building-lights—**
- 58. Canopy,
- 59. Vault,
- 60. Window.
- 57. **Lenses.**
- 67. **Window-reflectors.**

89.—ORDNANCE.*
- 1. **Miscellaneous.**
- 5. **Submarine.**
- **Automatic—**
- 2. Gas-operated,
- 3. Recoil-operated.
- 4. **Semi-automatic.**
- 6. **Pneumatic—**
- 7. Explosive charge.
- 8. **Accelerating.**

89.—ORDNANCE—Continued.
- 9. **Machine-guns—**
- 10. Centrifugal,
- 11. Axially-moving breech-block,
- 12. Revolving barrels,
- 13. Revolving cylinder.
- 14. **Barrels—**
- 15. Wound,
- 16. Composite.
- 17. **Breech-closures—**
- 18. Key-locked,
- 19. Screw—
- 20. Interrupted—
- 21. Fixed ammunition,
- 22. Transverse—
- 23. Sliding and swinging,
- 24. Sliding,
- 25. Swinging.
- 26. Gas-checks.
- 27. **Firing devices—**
- 28. Electric.
- 29. **Practice-barrels.**
- 30. **Vents and stoppers.**
- 31. **Tompions and valves.**
- 33. **Cartridge-feeding—**
- 34. Holders,
- 35. Belts.
- 36. **Shields.**
- 37. **Mounts—**
- 38. Disappearing gun—
- 39. Counterpoise,
- 40. Field,
- 41. Training mechanisms,
- 42. Recoil-checks—
- 43. Fluid,
- 44. Spring.
- 45. **Loading—**
- 46. Hoisting apparatus,
- 47. Rammers.

90.—GEAR-CUTTING, MILLING, AND PLANING.*
- 1. **Gear-cutting—**
- 2. Intermeshing generator,
- 3. Rotating cutter—
- 4. Helical gears,
- 5. Bevel-gears,
- 6. Blank-pillar and cutter-slide,
- 7. Axially traveling,
- 8. Reciprocating cutter—
- 9. Tooth-curve generating,
- 10. Templet-guide.
- 11. **Milling—**
- 12. Portable—
- 12.5. Valve-refitting.
- 13. Pattern-controlled—
- 13.1. Reproducing—
- 13.2. Duplicating—
- 13.3. Rotary work—
- 13.4. Automatic,
- 13.5. Automatic,
- 13.6. Rotary work—
- 13.7. Automatic,
- 13.8. Automatic,
- 13.9. Rotary work,
- Movable cutter-axis—
- 14. Axial,
- 15. Lateral,
- 16. Adjustable cutter-axis—
- 17. Angular,
- 18. Stationary cutter-axis—
- 19. Vertical,
- 20. Rotating work-holder,
- 21. Work-feeds—
- 22. Backlash-compensators,
- 23. Tail-stocks.
- 24. **Planing—**
- 24.3. Pattern-controlled—
- 24.4. Electromagnetically-controlled tool-
- 24.5. Rotary work,
- 25. Soft metal—
- 26. Cylindrical stereotypes,
- 27. Double-rack cutter-drive,
- 28. Roller-feed,
- Curved surfaces—
- 28.1. Rifling,
- 29. Roll-grooving,
- 30. Cycloids,
- 31. Laterally-moving cutter,
- 32. Laterally-moving work,
- 33. Broaching,
- Planers—
- 34. Reciprocating bed—
- 35. Rack-drive,
- 36. Screw-drive,
- 37. Cross-rails,

90.—GEAR-CUTTING, MILLING, AND PLANING—Continued.
- **Planing**—Continued.
- Planers—Continued.
- Reciprocating cutter—
- 38. Horizontal—
- 39. Oscillating link-drive,
- 40. Crank-drive,
- 41. Rack-drive,
- 42. Screw-drive,
- 43. Vertical—
- 44. Crank-drive—
- 45. Inverted,
- 46. Rack-drive—
- 47. Inverted,
- 48. Reversing mechanisms,
- 49. Tool-feeds—
- 50. Clutch-boxes,
- 51. Stop mechanisms,
- 52. Tool-heads—
- 53. Oscillating double cutter,
- 54. Pivoted cutter release,
- 55. Cutter-lifters.
- 56. **Indexing—**
- 57. Index-heads,
- 58. **Work-tables.**
- 59. **Work-holders—**
- 60. Machine-vises—
- 61. Angularly-adjustable jaws.
- 62. **Patterns, tracers and tools.**

91.—COATING.*
- **Special machines—**
- 1. Bordering letter-paper,
- 2. Confections and pills—
- 3. Fountain,
- 4. Immersion—
- 5. Chargers,
- 6. Dipping implements,
- 7. Rumble,
- 7.5. Electrotype-molds,
- 10. Photographic film and plate,
- 11. Pitching casks,
- With metal—
- 12.1. Combined machines,
- 12.2. Miscellaneous,
- 12.3. Plates—
- 12.4. Mirrors,
- 12.5. Immersion—
- 12.6. Work-conveying—
- 12.7. Rolls,
- 8. Flocking,
- 9. Marbling,
- 12. Striping—
- 12.01. Yarn,
- 13. **Combined machines—**
- 13.4. Dampening and press-copying—
- 13.5. Immersion,
- 13.6. Roller, tank-feed,
- 13.7. Web-dampener.
- 14. Coating and cutting—
- 14.5. Strip-servers,
- 15. Coating and folding,
- 16. Coating and printing,
- 17. Coating and stretching.
- 18. **Machines—**
- 19. Brush, fountain, and roller,
- 20. Brush, fountain, and scraper,
- 21. Brush, immersion, and roller,
- 22. Brush, immersion, and scraper,
- 23. Fountain, roller, and web,
- 24. Immersion, roller, and scraper,
- 25. Brush and fountain,
- 26. Brush and immersion,
- 27. Brush and roller,
- 28. Brush and web,
- 29. Fountain and roller,
- 30. Fountain and scraper,
- 31. Immersion and roller,
- 32. Immersion and scraper,
- 33. Roller and scraper,
- 34. Roller and web,
- 35. Scraper and web,
- 36. Abrasion,
- 37. Brush—
- 38. Capillary feed,
- 39. Fountain-feed,
- 40. Roller-feed,
- 41. Tank-feed,
- 42. Centrifugal,
- 43. Fountain—
- 44. Projection—
- 45. Air-brush,
- 46. Immersion,
- 47. Impression,
- 48. Roller—
- 49. Fountain-feed,
- 50. Roller-feed,
- 51. Tank-feed,
- 52. Rumble,

* See Definitions of Revised Classes.

91.—COATING—Continued.
Machines—Continued.
53. Scraper,
54. Web.
54.3. **Copying-pad baths.**
54.4. **Pads**—
54.5. Inking,
54.6. Copying.
With metal—
59.1. Finishing—
59.2. Rolls,
59.3. Separators,
59.4. Wipers,
59.8. Crystallizing.
55. **Driers and coolers.**
56. **Elevating devices.**
57. **Mixers and stirrers.**
58. **Strippers.**
59. **Wipers and dusters.**
60. **Work-holders**—
61. Enameling-tables,
62. Gripper mechanisms.
62.5. **Implements**—
63. Brush holders and cleaners,
65. Paint-protectors,
66. Pots,
67. Sanders,
67.1. Mucilage-holders—
67.2. Brushes,
67.3. Scrapers,
67.4. Spreaders—
67.5. Flexible cap.
67.8 **Roller structure.**
67.9. **Fabric coating and printing**—
67.95. Fraud preventing or detecting.
68. **Processes**—
69. Photographic film and plate,
70. With heat—
70.1. With metal—
70.2. Molten—
70.3. Preparation,
71. Japanning,
72. Vitreous—
73. On metal,
68.1 With metal—
68.2. Combined with electrodeposition.
68.3. Precipitation.

92.—PAPER-MAKING AND FIBER LIBERATION.*
1. **Stock treatment**—
2. By-product recovery,
6. Combined grinding and digesting,
7. Digestive—
11. Acid, sulfurous—
12. Fiber,
13. Alkaline—
14. Special paper-stock.
16. Bleaching feature—
17. Fiber,
15. Fiber,
9. Miscellaneous reagents—
10. Fiber,
8. Fiber,
18. Rotary digesters,
19. Shells and linings,
3. Special paper-stock,
4. Fiber—
5. Bacteria.
20. **Stuff-working**—
21. Special-material incorporating,
22. Beating-engines—
23. Screen attachment,
24. Horizontal course,
25. Vertical course,
26. Refining-engines—
27. Cone and shell,
28. Sand-separators,
29. Strainers—
30. Flat screen—
31. Horizontal stationary—
32. Vertically-vibrating diaphragm,
33. Shaking,
34. Cylindrical stationary screen,
35. Cylindrical rotating screen, outward flow,
36. Cylindrical rotating screen, inward flow,
37. Stuff-chests.
38. **Web-forming**—
39. Special work—
40. Special-material incorporating—
41. Cylinder-machines,
42. Cylinder-machines,
43. Cylinder-machines,

92.—PAPER-MAKING AND FIBER LIBERATION—Continued.
Web-forming—Continued.
44. Fourdrinier machines—
45. Shake-frames,
46. Feed-regulators,
47. Couch-rolls,
48. Dandy-rolls and watermarking devices,
49. Press rolls and felts,
50. Felt and wire cleaners,
51. Suction-boxes—
52. Traveling face—
53. Cylindrical.
54. **Pulp-molding**—
55. Special material and object incorporating,
56. Combined submerging and compressing,
57. Submerged mold,
58. Centrifugal action,
59. Compressors—
60. Elastic diaphragm,
61. Sheet and board forming,
62. Contractible matrix—
63. Piston-closing,
64. Toggle-closing,
65. Wedge-closing,
66. Winders—
67. Sheet and board forming.
68. **Finishing**—
69. Wrinkling,
70. Flexibility-imparting,
71. Calenders—
72. Reciprocating polisher,
73. Stacked-rolls type—
74. Doctors and guides,
75. Pressure-regulators,
76. Damping devices,
77. Rolls.

93.—PAPER MANUFACTURES.*
1. **Miscellaneous.**
Wrapping-machines—
2. Miscellaneous,
3. Receptacle making and filling,
4. Packet making and wrapping,
6. Receptacle filling and closing,
5. Crimpers and twisters,
7. Traveling carrier.
Bag-machines—
8. Miscellaneous,
Triangular fold—
9. Blade and roller,
10. Mandrel,
11. Plate-mandrel,
12. Rectangular mandrel,
13. Central fold,
14. Web-formers, cutters, openers, and closers—
15. Openers, roll,
16. Openers, side,
17. Web-formers, cutters and openers,
18. Web-formers, cutters and closers.
19. Web-formers and cutters,
20. Web-formers,
21. Cutters, openers, and closers,
22. Openers and closers—
23. Openers, roll,
24. Openers, side,
25. Cutters and openers,
26. Cutters and closers,
27. Closers,
28. Openers—
29. Roll,
30. Side,
31. Hand bottom-folders, tables,
32. Refolders,
33. Cutting,
34. Printing attachments,
35. Methods.
Box-machines—
36. Miscellaneous,
37. Cell-cases—
38. Traveling carrier, shifting form,
39. Folding and setting up,
40. Folding and covering,
41. Folding and staying,
42. Folding and stapling,
43. Setting up and covering,
44. Endless-mandrel carrier,
45. Folding, web-supply—
46. Driers,
47. Plunger and die,
48. Stationary folders,

93.—PAPER MANUFACTURES—Con.
Box-machines—Continued.
49. Folding—
50. Driers,
51. Plunger and die,
52. Stationary folders,
53. Refolders,
54. Covering,
55. Setting up,
56. Staying,
57. Fly-affixers,
58. Cutting and scoring,
59. Mandrels and dies,
60. Plaiting.
Envelop-machines—
61. Miscellaneous,
Rotary—
62. Blank-supply,
63. Web-supply,
Reciprocating—
64. Web-supply,
65. Turret,
66. Gumming and folding,
67. Folding,
68. Gumming—
69. Picker-faces,
70. Creasing mechanism,
71. Carrying mechanism,
72. Ejecting mechanism,
73. Printing and stamping,
74. Drying—
75. Chain-discharging,
76. Thread-affixers.
Tube-machines
77. Miscellaneous,
78. Fuse-making,
79. Tapering wind,
80. Spiral wind,
81. Convolute wind,
82. Axial feed,
83. Sizing and burnishing.
Tag-machines—
87. Miscellaneous,
88. Pin-ticket making and attaching,
89. Pin-ticket making,
90. Eyeleting,
91. String-attaching,
92. Washer-attaching.
Folding—
84. Miscellaneous,
85. Powder-paper machines,
86. Radial fold.
93. **Bunching and banding.**
94. **Tubes.**

94.—ROADS AND PAVEMENTS.*
1. **Roads.**
2. **Pavements**—
3. Floors,
4. Structure—
5. Antislip-surface,
6. Combined sheet and block,
7. Sheet—
8. Reinforced or surfaced,
9. Bituminous,
10. Hydraulic cement,
11. Block or other preformed elements—
12. Reinforced,
13. Interlocking or overlapping,
14. Spaced,
15. Capped,
16. Beds,
17. Joints—
18. Expansion,
19. Composition—
20. Bituminous,
21. Hydraulic cement,
22. Processes—
23. Bituminous,
24. Hydraulic cement,
25. Dust prevention.
26. Side or cross walks
27. Light-transmitting
28. Concrete-frame,
29. Lenses and lens-mounts,
30. Gratings.
31. **Curbs or gutters**—
32. Corner-protectors.
33. **Drains.**
34. **Vault-covers**—
35. Locking,
36. Hinged,
37. Ventilated,
38. Guards.

* See Definitions of Revised Classes.

94.—ROADS AND PAVEMENTS—Con.
- 39. Apparatus—
- 40. Material preparation—
- 41. Combined machines,
- 42. Material heating and treating—
- 43. Mixers,
- 44. Material-distributing and surface-treating,
- 45. Smoothing or marking—
- 46. Material-feeding,
- 47. Block-laying,
- 48. Rammers—
- 49. Hammers,
- 50. Rollers,
- 51. Expansion-joint.

95.—PHOTOGRAPHY.*
- 1. Miscellaneous.
- 1.1. Exposure identification.
- 2. Color.
- 3. Daguerreotypy—
- 4. Vises.
- 4.5. Phototypographs.
- 6. Sensitising and developing.
- 7. Sensitising.
- 8. Surfaces—
- 9. Films.
- 10. Actinometers.
- 11. Cameras—
- 12. Combination,
- 12.5. Aerial,
- 13. Developing—
- 14. Automatic,
- 15. Panoramic—
- 16. Concave surface,
- 17. Convex surface,
- 18. Simultaneous exposure,
- 19. Magazine—
- 20. Hand-changed plate,
- 21. Tilting magazine,
- 22. Flexible plate-carrier,
- 23. Sliding plate—
- 24. Sliding and return,
- 25. Continuous guides,
- 26. Intermediate exposure-chamber,
- 27. Quarter-turned plate—
- 28. Tilting—
- 29. Base-guides,
- 30. Rear-plate replacing,
- 31. Roll-holding—
- 32. Folding—
- 33. Hinged bellows,
- 34. Posterior rolls,
- 36. Successive plate-section—
- 37. Shifting lens or plate—
- 38. Rotary,
- 39. Folding—
- 40. Hinged base,
- 41. Plate-holder storage,
- 42. Exposure-lens finder,
- 44. Focusing—
- 45. Adjusting mechanism,
- 46. Guides and locks,
- 47. Hoods,
- 48. Reversible back,
- 49. Ground glasses and frames,
- 50. Swing front or back,
- 51. Shift front or back,
- 53. Shutters—
- 54. Fluid-operating mechanisms,
- 55. Sliding—
- 56. Opposite movement,
- 57. Curtain,
- 58. Pivoted—
- 59. Blade—
- 60. Blade and cover blind,
- 61. Rotary,
- 62. Opposite movement—
- 63. Symmetrical opening,
- 64. Diaphragms,
- 65. Vignetters,
- 66. Plate-holders—
- 67. Light-seals,
- 68. Plate fastenings and kits—
- 69. Adjustable,
- 70. Solution-drains and resistants,
- 71. Closure locks and checks.
- 72. Auxiliary.
- 86. Camera-supports.
- 73. Printing—
- 74. Superposed negative,
- 75. Continuous film,
- 76. Fluid-pressure contact,
- 77. Frames—
- 77.5. Cylindrical,
- 78. Stands,
- 79. Vignetting—
- 80. Frame-attaching mechanisms

95.—PHOTOGRAPHY—Continued.
- 81. Screens—
- 81.5. Color.
- 82. Studios.
- 83. Backgrounds—
- 84. Rolling curtain.
- 85. Models.
- 88. Developing.
- 89. Fluid-treating apparatus—
- 90. Dark cabinets—
- 90.5. Roll-film,
- 91. Hand insertion—
- 92. Ventilated,
- 93. Rotating carriers,
- 94. Film-guides,
- 95. Trays,
- 96. Tanks—
- 97. Washing—
- 98. Plate-supporting,
- 99. Rocking mechanisms,
- 100. Work-handling devices.
- 101. Retouching—
- 102. Stands—
- 103. Vibrating.
- 104. Burnishing—
- 105. Rotary machines—
- 106. Internally heated.
- 5. Processes—
- 5.1. Multicolor-printing surface—
- 5.2. Planographic,
- 5.3. Photo-etching,
- 5.4. Planographic-printing surface,
- 5.5. Vitreous colors,
- 5.6. Relief or intaglio—
- 5.7. Photo-etching.

97.—PLOWS.
- 1. Attachments—
- 44. Harrow.
- 2. Beams.
- 3. Cleaners.
- 4. Clevises.
- 6. Colters—
- 43. Rolling.
- 5. Corn-coverers.
- 8. Cotton-choppers—
- 45. Reciprocating,
- 46. Revolving—
- 61. Chopper-heads,
- 47. Horizontal,
- 48. Scrapers,
- 49. Spacing-wheels.
- 9. Cotton-scrapers.
- 7. Couplings.
- 11. Cultivator-teeth.
- 10. Cultivators
- 41. Hand—
- 42. Wheel,
- 20. Parallel,
- 37. Revolving,
- 38. Rolling,
- 25. Rotary—
- 39. Horizontal,
- 31. Straddle-row,
- 34. Wheel—
- 35. Straddle-row.
- 79. Earthworking-element scrapers—
- 80. Gang.
- 77. Earthworking-element sharpeners.
- 13. Fenders.
- 92. Furrow-formers.
- 14. Gage wheels and runners.
- 15. Handles.
- 85. Implement-frames—
- 86. Tool-adjusters—
- 88. Elevating and depressing—
- 90. Multiple tool,
- 89. Draft-operated.
- 87. Fore-and-aft shift.
- 82. Land-markers—
- 83. Machine attachments—
- 84. Slidably mounted.
- 17. Landsides.
- 18. Moldboards—
- 23. Revolving.
- 21. Plows—
- 12. Ditching,
- 40. Revolving,
- 26. Shovel,
- 27. Sidehill,
- 30. Steam—
- 50. Alternating,
- 81. Automatic steering devices,
- 66. Endless chain,
- 67. Gang—
- 60. Adjusting devices,
- 68. Frames,
- 69. Plow units,

97.—PLOWS—Continued.
- Plows—Continued.
- Steam—Continued.
- Lifts—
- 70. Power-operated—
- 59. Furrow-evening devices,
- 71. Rotary—
- 72. Cylinder,
- 51. Horizontal,
- 52. Spiral,
- 53. Spaders,
- 36. Wheel—
- 73. Guide-wheels—
- 74. Multiple—
- 75. Adjustable,
- Lifts—
- 76. Compound,
- 58. Foot-operated,
- 54. Power-operated,
- 55. Axle-clutch,
- 56. Draft-link,
- 57. Lifting-leg.
- 22. Points.
- 24. Ridgers.
- 62. Rotary earthworking elements—
- 63. Cylinders,
- 64. Disks,
- 78. Gangs,
- 91. Ridging,
- 65. Spirals.
- 28. Sod-cutters.
- 29. Standards.
- 32. Subsoilers.
- 33. Weed-turners.

96.—PNEUMATICS.
- Chimney-cowls—
- Ejector—
- 3. Directing-vane,
- 2. Draft-wheel,
- 4. Stationary,
- 5. Swing-valve,
- 6. Tilting,
- 7. Vane and draft-wheel,
- 8. Injector,
- 9. Injector-ejector.
- 49. Registers—
- 50. Air-distributer,
- 51. Air-moistening attachments,
- 52. Border or frame,
- 53. Flush surface,
- 54. Wall.
- 30. Ventilating-chimneys.
- Ventilation—
- Car—
- Fans—
- 17. Axle-driven,
- 18. Wind-driven.
- Forced draft—
- 19. Axle-motor,
- 20. Wind-motor,
- Natural draft—
- 21. Dust and draft guards,
- 22. Injectors and ejectors,
- 23. Systems,
- 24. Train-pipe,
- 33. Combined ventilators and cleaners,
- 25. Flue-heaters,
- 26. Grain,
- 55. Hoods,
- 27. House,
- 28. Mine.
- 31. Window-ventilators—
- 32. Condensation-preventers.

99.—PRESERVING.
- 1. Antiseptics.
- 2. Apparatus.
- 5. Desiccation.
- 6. Egg-testers.
- 8. Exclusion of air.
- 11. Food compounds—
- 13. Artificial butter,
- 16. Confectionery.
- 9. Fumigation.
- 15. Liquid-sterilizing.
- 10. Panification.
- 14. Refrigerating.
- 12. Wood saturation.

*See Definitions of Revised Classes.

100.—PRESSES.

- **Baling—**
  - Articles and attachments—
    - 15. Bale-band tighteners,
    - 16. Bale-ejectors,
    - 14. Bales and bale-covers,
    - 20. Binders,
    - 19. Boxes and frames,
    - 21. Brakes,
    - 22. Condensers,
    - 23. Discharge-end-contracting devices,
    - 24. Division-blocks and block-inserters.
    - 25. Feeders,
    - 28. Movable bale-boxes,
    - 29. Plungers,
    - 30. Retainers,
  - 1. Belt and roller,
  - Plunger—
    - 2. Cam,
    - 3. Crank and pitman,
    - 4. Lever,
    - 5. Rack-bar and pinion,
    - 6. Ratchet and grapple bar,
    - 7. Rebounding,
    - 8. Screw,
    - 11. Thrust-bar,
    - 9. Toggle-joint,
    - 10. Toggel-joint, inverted,
    - 12. Windlass,
  - 13. Screw,
  - 65. Traction-operated.
- **Bundling—**
  - [31. In lengths,
  - 32. In lengths, shingles,
  - 33. Wool.
- **Copying—**
  - 63. Fluid-pressure,
  - 60. Hand-impressing,
  - 61. Hand-impressing, book flexure,
  - 62. Roller mechanism.
- **Expressing—**
  - Articles and attachments—
    - 50. Boxes and frames,
    - 51. Cake-formers,
    - 52. Cake-strippers,
    - 53. Cake-trimmers,
    - 54. Mats,
  - 35. Belt,
  - 36. Belt and plunger,
  - 37. Belt and roller,
  - 38. Disk,
  - Plunger—
    - 39. Cam,
    - 40. Crank and pitman,
    - 41. Lever,
    - 42. Rack-bar and pinion,
    - 43. Ratchet and grapple bar,
    - 44. Screw,
    - 45. Toggle-joint,
    - 46. Windlass,
  - 47. Roller,
  - 48. Screw,
  - 49. Without operating mechanism.
- **Packing—**
  - 55. Cheese,
  - 56. Continuous compression,
  - 57. Single compression.

101.—PRINTING.*

- 1. **Miscellaneous.**
- 2. **Printing and sorting.**
- 3. **Embossing or penetrating—**
  - 4. Special-article machines—
    - 5. Rolling contact-
      - 6. Rotary,
      - 7. Rotating object,
      - 8. Hot die,
    - 9. Hot die—
      - 10. Oscillating,
      - 11. Feeding or delivering,
    - 12. Matrix material-
    - 13. Selective machines—
      - 14. Drum series,
      - 15. Multiple-character bar,
    - 16. Die members,
    - 17. Processes,
  - 18. Selective machines—
    - 19. Piercing—
      - 20. Oscillating,
    - 21. Hot die,
  - 22. Rolling-contact machines—
    - 23. Rotary -
      - 24. Piercing,
      - 25. Hot die,

101.—PRINTING—Continued.

- **Embossing or penetrating**—Con.
  - 26. Piercing-machines,
  - 27. Hot-die machines,
  - 28. Die members—
    - 29. Selective,
    - 30. Piercing,
    - 31. Hot,
    - 32. Processes.
  - 33. **Transferring preparatory designs—**
    - 34. Processes.
  - 35. **Special-article machines—**
    - 36. Rotary—
      - 37. Feeding or delivering.
    - 38. Rotating object—
      - 39. Traveling—
        - 40. Feeding or delivering,
    - 41. Bed and platen—
      - 42. Selective—
        - 43. Feeding or delivering,
      - 44. Feeding or delivering.
  - 45. **Selective or progressive—**
    - 46. Typewriter feature,
    - 47. Addressing-machines—
      - 48. Stencil—
        - 49. Rotary machines with roller-inker and fountain,
        - 50. Stencil-web.
        - 51. Traveling roller-inker with fountain,
      - 52. Rotary—
        - 53. Feeding or delivering—
          - 54. Plate chain feed,
        - 55. Bed and cylinder—
          - 56. Traveling cylinder,
        - 57. Bed and platen—
          - 58. Article-grouper,
          - 59. Drum series,
          - 60. Interconnected plates—
            - 61. Oscillating machine,
          - 62. Rotary plate-carrier,
          - 63. Shifting chase—
            - 64. Oscillating machine,
          - 65. Oscillating,
      - 66. Ticket-machines—
        - 67. Duplicating—
          - 68. Bed and platen,
        - 69. Bed and platen—
          - 70. Numbering attachment,
        - 71. Mail-box machines,
        - 72. Numbering—
          - 73. Measuring-machines—
            - 74. Rotary—
              - 75. Drum series,
            - 76. Rotary machines—
              - 77. Planetary drum series,
            - 78. Bed-and-platen machines—
              - 79. Drum series—
                - 80. Oscillating machine—
                  - 81. Roller and plate inker,
                  - 82. Roller and plate inker,
                - 83. Drum series and pad-inkers,
                - 84. Printing members—
                  - 85. Drum series—
                    - 86. Planetary—
                      - 87. Adjustable,
                    - 88. Contact-actuated—
                      - 89. Yielding drums,
                - 90. Duplicating-machines,
                - 91. Rotary machines—
                  - 92. Web,
                - 93. Bed-and-platen machines—
                  - 94. Oscillating—
                    - 95. Drum series—
                      - 96. Ribbon-inker,
                      - 97. Pad-inker,
                    - 98. Pad-inker,
                  - 99. Drum series—
                    - 100. Ribbon-inker,
                    - 101. Pad-inker,
                  - 102. Ribbon-inker,
                - 103. Printing members and inkers—
                  - 104. Tumbler-bed and pad-inker—
                    - 105. Endless type-band,
                  - 106. Drum series—
                    - 107. Ribbon-inker,
                    - 108. Pad-inker,
                - 109. Printing members—
                  - 110. Drum series,
                  - 111. Endless band,
                  - 112. Stencil-plate.
  - 113. **Duplicating-machines.**
  - 114. **Stenciling—**
    - 115. Multicolor,
    - 116. Rotary machines—
      - 117. Cutting and feeding or delivering,
      - 118. Feeding or delivering,
      - 119. Internal inker—
        - 120. Contact member,

101.—PRINTING—Continued.

- **Stenciling**—Continued.
  - 121. Stencil-web machines—
    - 122. Endless band,
    - 123. Traveling-inker machines.
    - 124. Stationary-inker machines.
    - 125. Stencil and pad-inker,
    - 126. Stencil and work support,
    - 127. Stencil-plates—
      - 128. Settable units,
    - 129. Processes.
  - 130. **Planographic—**
    - 131. Copying apparatus—
      - 132. Rotary machines,
      - 133. Bed-and-cylinder machines—
        - 134. Multicolor ink-block,
    - 135. Multicolor—
      - 136. Rotary machines—
        - 137. Transfer with interrupter
        - 138. Web—
          - 139. Interrupter,
          - 140. Interrupter,
        - 141. Rotary machines—
          - 142. Transfer—
            - 143. Web with interrupter,
            - 144. Interrupter,
          - 145. Interrupter,
        - 146. Bed-and-cylinder machines.
        - 147. Dampeners—
          - 148. Roller-fountain,
        - 149. Processes.
  - 150. **Intaglio—**
    - 151. Multicolor—
      - 152. Rotary machines,
      - 153. Rotary machines—
        - 154. Transfer with scraper-wiper,
        - 155. Wiper—
          - 156. Web,
          - 157. Scraper,
        - 158. Bed-and-cylinder machines—
          - 159. Circulating bed—
            - 160. Roller-inker with web-wiper,
          - 161. Roller-inker with wiper—
            - 162. Web-wiper,
          - 163. Bed and platen—
            - 164. Reciprocating bed with roller-inker and web-wiper,
            - 165. Roller-inker with web-wiper,
            - 166. Web-wiper,
          - 167. Wipers—
            - 168. Web,
            - 169. Scraper,
          - 170. Processes.
    - 171. **Multicolor—**
      - 172. Yarn,
      - 173. Rotary and bed-and-cylinder machines,
      - 174. Rotary machines—
        - 175. Single impression—
          - 176. Web,
          - 177. Transfer,
          - 178. Web—
            - 179. Perfecting—
              - 180. Multiple couple,
            - 181. Multiple couple,
            - 182. Interrupter,
          - 183. Multiple couple—
            - 184. Interrupter,
          - 185. Interrupter,
        - 186. Bed-and-cylinder machines—
          - 187. Single impression,
          - 188. Lateral shift,
          - 189. Multiple cylinder—
            - 190. Perfecting,
            - 191. Throw-off—
              - 192. Interrupter,
        - 193. Bed-and-platen machines—
          - 194. Single impression—
            - 195. Oscillating machines with roller and plate inker,
          - 196. Web—
            - 197. Oscillating bed,
            - 198. Reciprocating bed—
              - 199. Roller-inker,
            - 200. Oscillating,
            - 201. Rising-and-falling type.
        - 202. Inkers—
          - 203. Roller and plate—
            - 204. Fountain,
          - 205. Roller—
            - 206. Rotary machine—
              - 207. Fountain,
            - 208. Fountain,
            - 209. Interrupter,
          - 210. Fountains,
        - 211. Processes.
    - 212. **Rolling-contact machines—**
      - 213. Rotary printer and web-roll with roller-inker,
      - 214. Rotary and bed and cylinder—
        - 215. Transfer,

* See Definitions of Revised Classes.

101.—**PRINTING**—Continued.
Rolling-contact machines—Con.
216. Rotary—
217. Transfer—
218. Interrupter,
219. Web—
220. Perfecting—
221. Multiple impression—
222. Reversing,
223. Reversing,
224. Cutting and feeding or delivering,
225. Feeding or delivering,
226. Cutting—
227. Feeding or delivering,
228. Feeding or delivering,
229. Perfecting—
230. Reversing,
231. Feeding or delivering,
232. Feeding or delivering—
233. Article-controlled machines—
234. Tripped printing member—
235. Single revolution—
236. Stacking,
237. Stacking,
238. Stacking—
239. Article-timing stop,
240. Stacking—
241. Article-timing stop,
242. Article-timing stop,
243. Ribbon-inker,
244. Ribbon-inker,
245. Single revolution,
246. Gripper-cylinder,
247. Interrupter,
248. Cylinder-registering mechanisms,
249. Staggered blanket,
250. Bed and cylinder—
251. Transfer—
252. Traveling cylinder,
253. Web—
254. Perfecting—
255. Circulating bed,
256. Traveling cylinder—
257. Reversing,
258. Oscillating cylinder,
259. Circulating bed,
260. Traveling cylinder,
261. Oscillating cylinder,
262. Perfecting—
263. Circulating bed,
264. Traveling cylinder,
265. Stop-cylinder,
266. Oscillating cylinder with feeding or delivering,
267. Feeding or delivering by additional revolution,
268. Circulating bed,
269. Traveling cylinder—
270. Circulating—
271. Feeding or delivering with ribbon-inker,
272. Feeding or delivering—
273. Ribbon-inker,
274. Ribbon-inker,
275. Stop-cylinder—
276. Feeding or delivering,
277. Oscillating cylinder—
278. Feeding or delivering,
279. Feeding or delivering—
280. Additional revolution,
281. Ribbon-inker,
282. Bed and cylinder movements only—
283. Throw-off—
284. Interrupter,
285. Interrupter,
286. Cylinder-registering mechanisms.
287. **Bed-and-platen machines**—
288. Web—
289. Perfecting—
290. Reciprocating bed with roller-inker,
291. Oscillating bed,
292. Reciprocating bed—
293. Roller and plate inker—
294. Circulating roller,
295. Roller-inker,
296. Perfecting,
297. Oscillating—
298. Oscillating bed—
299. Interrupter—
300. Roller and plate inker,
301. Inker—
302. Roller and plate—
303. Traveling plate,
304. Circulating roller,
305. Roller,

101.—**PRINTING**—Continued.
Bed-and-platen machines—Con.
Oscillating—Continued.
306. Interrupter—
307. Roller and plate inker—
308. Circulating roller,
309. Roller-inker,
310. Inker—
311. Roller and plate—
312. Traveling plate,
313. Circulating roller,
314. Roller—
315. Fountain,
316. Reciprocating bed—
317. Interrupter,
318. Inker—
319. Roller and plate,
320. Roller—
321. Fountain,
322. Interrupter—
323. Roller-inker,
324. Inker—
325. Roller and plate,
326. Roller with fountain.
327. **Printing members and inkers**—
328. Rolling-contact printing member—
329. Roller-inker—
330. Fountain—
331. Roller-fountain,
332. Ribbon-inker,
333. Pad-inker—
334. Tumbler-bed.
335. **Inkers**—
336. Ribbon,
337. Roller and plate—
338. Bed-and-platen machine—
339. Traveling plate,
340. Fountain—
341. Interrupter,
342. Interrupter,
343. Traveling plate—
344. Fountain—
345. Interrupter,
346. Interrupter,
347. Fountain,
348. Roller—
349. Rotary machine—
350. Fountain—
351. Interrupter,
352. Interrupter,
353. Bed-and-cylinder machine—
354. Traveling roller—
355. Fountain,
356. Fountain—
357. Interrupter,
358. Interrupter,
359. Bed-and-platen machine—
360. Fountain—
361. Interrupter,
362. Interrupter,
363. Fountain,
364. Fountains—
365. Multiple-point control,
366. Force discharge,
367. Roller-fountain.
368. **Printing members**—
369. Addressing-plates—
370. Type-groove,
371. Mail-canceling stamps,
372. Special-design forms—
373. Arrangeable face,
374. Late insertion,
375. Rolling contact—
376. Yielding surface,
377. Type-groove,
378. Plate-securing means,
379. Yielding surface—
380. Type-groove,
381. Type-groove,
382. Plate-mountings—
383. Securing means—
384. Modified plate,
385. Detachable hooks—
386. Groove—
387. Diagonal—
388. Shifting means,
389. Block,
390. Chase-securing means,
391. Chases—
392. Variable-size frame,
393. Adjustable bars,
394. Locking means,
395. Plates,
396. Line-bars—
397. Special-design face,
398. Types—
399. Special-design face,
400. Rules and borders,
401. Surfaces,
402. Fillers—
403. Line-spacers,
404. Binding,

101. **PRINTING**—Continued.
Printing members—Continued.
405. Stamp-handles—
406. Flexible connection.
407. **Work-supporting members**—
408. Grippers—
409. Cylinder—
410. Shiftable,
411. Gripper-attached tumbler,
412. No operating mechanism,
413. Tympan-gages—
414. Automatic movement,
415. Surface-secured.
416. **Antismut devices**—
417. Absorbent web—
418. Cylinder-carried reels,
419. Absorbent sheet,
420. Contact-preventers—
421. Friskets,
422. Ink-repellent,
423. Cleaners—
424. With cleaning composition.
425. **Cleaning attachments.**
426. **Processes.**

102.—**AMMUNITION AND EXPLOSIVE DEVICES.***
1. **Miscellaneous.**
2. **Torpedoes**—
3. Submarine mines,
4. Weil.
5. **Blasting**—
6. Cartridges—
7. Electric,
8. Fuses—
9. Caps,
10. Electric,
11. Plugs.
20. **Pyrotechnics**—
21. Cartridges,
22. Fire-crackers,
23. Rockets,
24. Torches,
25. Toy torpedoes.
12. **Cartridges**—
13. Accelerating,
14. Practice,
15. Shot,
16. Shells—
17. Breech structure,
18. Primers—
19. Electric.
26. **Projectiles**—
27. Bomb-lances,
28. Capped or covered,
29. Shells—
30. High explosive,
36. Fuses—
37. Combination,
38. Electric,
39. Percussion,
31. Lubricating,
32. Self-rotating,
33. Canister,
34. Line-carrying,
35. Oil-distributing,
40. Sabots—
41. Wedge-expanded,
42. Wads.
43. **Primers.**

103.—**PUMPS.**
45. **Accumulators.**
52. **Air-suction chamber.**
53. **Assembling.**
5. **Cattle.**
6. **Chain.**
50. **Collapsible tube.**
54. **Combined types.**
8. **Compressed-air water-elevators**—
84. Aerated column,
55. Hydraulic compression.
10. **Diaphragm.**
56. **Differential reciprocating pistons**—
57. Hollow piston-rod.
Elements—
58. Air and vacuum chambers,
60. Cut-off and drain devices,
59. Cylinders,
61. Miscellaneous and combined,
62. Operating devices,
63. Pistons,
64. Sand traps and strainers,
65. Stocks, curbs, and supports,
66. Valves.

* See Definitions of Revised Classes.

103.—**PUMPS**—Continued.
- 67. **Fluid motive power—**
- 68. Fluid-transmitting,
- 69. Water-wheel.
- 17. **Hollow piston-rod—**
- 70. Double-acting—
- 71. One solid piston,
- 72. Multiple cylinder.
- 73. **Oscillating piston.**
- 51. **Railway-tank feeders.**
- 29. **Rams.**
- 85. **Regulators—**
- 86. Liquid level—
- 98. Air-admitting,
- 100. Bucket-operated—
- 101. Float-controlled,
- Curved rack—
- 105. Float-controlled,
- Diaphragm-operated—
- 103. Float-controlled,
- 96. Overflow to motor,
- Piston-operated—
- 102. Float-controlled,
- 99. Pump-check-valve controller,
- Reciprocating rack—
- 104. Float-controlled,
- 97. Thermostatic,
- 87. Pressure—
- 88. Belt-shifter,
- 89. By-pass,
- Throttle—
- 90. Multiple fluid-pressure—
- 91. Auxiliary valve,
- 92. Single fluid-pressure—
- 93. Auxiliary valve,
- 94. Speed,
- 95. Speed and pressure.
- 44. **Rotary double piston.**
- 43. **Rotary single piston.**
- 75. **Solid reciprocating piston—**
- 76. Double-acting,
- 77. Multiple cylinder—
- 78. Double-acting.
- 79. **Systems.**
- 106. **Trap type.**
- 80. **Valved reciprocating piston—**
- 81. Multiple cylinder,
- 82. Opposing pistons,
- 83. Successive pistons.
- 35. **Windlass water-elevator.**

104.—**RAILWAYS.***
- 1. **Miscellaneous.**
- 2. **Track-layers—**
- 3. Built-up sections,
- 4. Portable shifter,
- 5. Distributers—
- 6. Transverse-tie placer,
- 7. Track-raiser,
- 8. Sluer,
- 9. Tie-replacer,
- 10. Tamper—
- 11. Pneumatic injector,
- 12. Car-mounted,
- 13. Hand-tools—
- 14. Pneumatic,
- 15. Joint-welders,
- 16. Tie-platers,
- 17. Spike-drivers.
- 18. **Moving train—**
- 19. Safety-lander,
- 20. Passenger transfer—
- 21. Revolving terminal.
- 22. **Balloon.**
- 23. **Aeroplane.**
- 24. **Sailing devices.**
- 25. **Endless train.**
- 26. **Car-yards.**
- 27. **Terminals and stations—**
- 28. Passenger,
- 29. Freight,
- 30. Platforms—
- 31. Shifting.
- 32. **Truck-changers—**
- 33. Wheel-gage changers.
- 34. **Vehicle-battery replacer.**
- 35. **Turn-tables—**
- 36. Actuators—
- 37. Fluid-pressure,
- 38. Electric control.
- 39. Traction-cable,
- 40. Vehicle-operated—
- 41. Drive-wheel,
- 42. Gravity,
- 43. Traction-wheel,
- 44. Automobile,
- 45. Portable,
- 46. Bearings and pivots,
- 47. Locks.

104.—**RAILWAYS**—Continued.
- 48. **Transfer-tables—**
- 49. Swinging,
- 50. Operating mechanism.
- 51. **Locomotive-shed fixtures—**
- 52. Smoke-jacks.
- 53. **Amusement—**
- 54. Gap-jumpers,
- 55. Loop,
- 56. Helical—
- 57. Rotating,
- 58. Moving-wave track,
- 59. Drifting tub,
- 60. Racing,
- 61. Horse simulation,
- 62. Physical training,
- 63. Tortuous alinement—
- 64. Horizontal zigzag—
- 65. Exchanging gears,
- 66. Chain drive,
- 67. Switchback,
- 68. Bowl, cylinder, or globe,
- 69. Chutes—
- 70. Water-dive,
- 71. Submarines,
- 72. Splasher,
- 73. Canals,
- 74. Rotary car on truck—
- 75. Vertical axis,
- 76. Horizontal axis,
- 77. Car in wheel—
- 78. Traveling,
- 79. Seesaw-track,
- 80. Seesaw car-drive,
- 81. Swing car-drive,
- 82. Passenger-jumper,
- 83. Illusion-vehicles,
- 84. Optical illusion,
- 85. Physical illusion,
- 86. Hydraulic effects.
- 87. **Cable and rigid combined.**
- 88. **Selective delivery.**
- 89. **Suspended—**
- 90. Ferry,
- 91. Track systems,
- 92. Swing boom-track,
- 93. Single-rail type,
- 94. Double inner rail,
- 95. Double outer rail.
- 96. **Trolley transfer—**
- 97. Beef-jack type,
- 98. Overhead crane,
- 99. Turn-table type,
- 100. Horizontal end pivot,
- 101. Longitudinal pivot,
- 102. Sliding shift,
- 103. Swing-stub,
- 104. Split point,
- 105. Rigid frog.
- 106. **Trolley-rails—**
- 107. Two-tread—
- 108. Slotted tube,
- 109. Integral,
- 110. Single tread,
- 111. Hangers.
- 112. **Cable-rails—**
- 113. Gravity,
- 114. Extensible marine,
- 115. Hangers and saddles—
- 116. Vertical movement,
- 117. Tension-regulators and anchors.
- 118. **Monorail—**
- 119. With side guides,
- 120. Raised center rail,
- 121. Single top guide.
- 122. **Drop pick-up.**
- 123. **Way suspension.**
- 124. **Elevated structure.**
- 125. **Posts and towers.**
- 126. **Portable elevated.**
- 127. **Elevators—**
- 128. Car,
- 129. Track control.
- 130. **Switches**
- 131. Vertical,
- 132. Rack-rail.
- 133. **Droppings-catcher.**
- 134. **Sledways—**
- 135. Roller-track,
- 136. Ice track.
- 137. **Traveling track.**
- 138. **Tubular ways.**
- 139. **Truck in conduit.**
- 140. **Slotted conduit—**
- 141. Crossings,
- 142. Yokes—
- 143. Concrete,
- 144. Integral metallic,
- 145. Grip or plow traps,
- 146. Adjustable slots.

104.—**RAILWAYS**—Continued.
- 147. **Car-propulsion systems—**
- 148. Electric—
- 149. External car control—
- 150. Auxiliary function,
- 151. Reversing devices,
- 152. Speed-regulators,
- 153. Block system,
- 154. Hydraulic,
- 155. Pneumatic—
- 156. Piston-tube,
- 157. Motor-charging—
- 158. Moving car—
- 159. Longitudinal supply-tube—
- 160. Sliding-sleeve receiver,
- 161. Sealing slot-closers,
- 162. Pusher—
- 163. Rotary,
- 164. Tilting track.
- 165. **Traction—**
- 166. Longitudinal rotary shafts,
- 167. Helical,
- 168. Transverse live-roll,
- 169. Reciprocating farm-tool,
- 170. Truck distribution—
- 171. Two-wheel type,
- 172. Chain,
- 173. Cables—
- 174. Counterbalanced system—
- 175. Weight,
- 176. Mule-car,
- 177. Mail,
- 178. Drive and control—
- 179. Signals,
- 180. Running and carrying cable—
- 181. Mail,
- 182. Clearing-way hangers,
- 183. Drum-wind draft,
- 184. At switches,
- 185. Crossing-conduit—
- 186. Cable-depressors,
- 187. Auxiliary car propulsion,
- 188. At swing-bridges,
- 189. Curves—
- 190. Auxiliary car propulsion,
- 191. Horizontal pulley,
- 192. Double-rope system,
- 193. Draft-cable coupling,
- 194. Slot-closers,
- 195. Slot-switches,
- 196. Take-ups,
- 197. Supporting-pulley,
- 198. Cable-shifters,
- 199. Cable-lifters,
- 200. Cable-clips—
- 201. Strand-engaging,
- 202. Grippers—
- 203. Pneumatically operated,
- 204. Automatic grip control—
- 205. Trip-lever—
- 206. Toggle-operated jaw,
- 207. Releasable pawl,
- 208. Weight-operated jaw,
- 209. Spring-pressed jaw,
- 210. Screw-operated,
- 211. Cam-operated,
- 212. Wedge-operated,
- 213. Longitudinal buffer,
- 214. Laterally-movable jaws—
- 215. With guide-rollers,
- 216. Pivoted and fixed jaws,
- 217. Forceps,
- 218. Vertically-movable jaws—
- 219. Pawl-lever and link,
- 220. With guide-rollers—
- 221. Pawl-lever and link,
- 222. Wedge,
- 223. Screw,
- 224. Cam,
- 225. V clips or hooks,
- 226. Friction-belt,
- 227. Overstepping—
- 228. Revolving,
- 229. Rollers—
- 230. Power-transmitting,
- 231. Laterally movable,
- 232. Vertically movable—
- 233. Opposing twin,
- 234. Staggered,
- 235. Whelp-wheel,
- 236. Sprocket-wheel,
- 237. Sprocket-belt,
- 238. Drive-stops on car,
- 239. Cable-driving stops,
- 240. Cable construction.
- 241. **Seat-guard control.**
- 242. **Derailment-guards—**
- 243. Supplemental car-wheels and rails.
- 244. Inclined wheels.

* See Definitions of Revised Classes.

104.—**RAILWAYS**—Continued.
Derailment-guards—Continued.
245. Guide-rollers—
246. Rail interlock,
247. Horizontal thrust only,
248. Rail-interlocking lugs.
249. **Car-stops**—
250. Special track—
251. Car-retaining,
252. Releasable feed—
253. Alternate,
254. Bumpers—
255. Counterweight,
256. Fluid-pressure,
257. Displaceable chock,
258. Rail-clamp chocks,
259. Sliding,
260. Wheel-skid.
261. **Car-attached derailer.**
262. **Car-replacer**—
263. Car-attached,
264. Special track,
265. Two-way—
266. With rollers,
267. Double,
268. One-way—
269. Symmetrical,
270. Saddles,
271. Pivoted ramp,
272. Articulated extension,
273. Shifting jack,
274. Rail-clamps.
275. **Hose-bridges**—
276. Overhead,
277. Under rail.
278. **Driftage control.**
279. **Track-clearers**—
280. Conduit.

105.—**RAILWAY ROLLING-STOCK.***
1. **Trains**—
2. Stream-line form,
3. Articulated—
4. Two-car truck,
5. Non-telescoping—
6. Bevel-ended,
7. One-track passage,
8. Vestibule connections—
9. Cab and tender,
10. Face-plate expanders—
11. Pneumatic,
12. Gravity,
13. Vertical equalizing,
14. Top bow-spring,
15. Diaphragms—
16. Metallic—
17. Telescopic,
18. Bellows-fold—
19. Slit plaits,
20. Fasteners,
21. Face-plates—
22. Vertical hanger-rod,
23. Curtain-releasers—
24. Trip-handles,
25. Twin jaws,
26. **Locomotives**—
27. Auxiliary function,
28. Turn-tables,
29. Rack-rail,
30. Gripping-drivers,
31. Track-pusher,
32. Intermittent grip,
33. Driver pick-up,
34. Bogie on car,
35. Generating electric—
36. Turbine,
37. Steam—
38. Turbine,
39. Compound,
40. Articulated boilers,
41. Center fire-box twin,
42. Transverse cylinder,
43. Boilers—
44. Saddles,
45. Superheaters,
46. Fire-box arrangement,
47. Articulated pipes,
48. Control,
49. Electric—
50. Battery—
51. Cell disposal,
52. Double rotor,
53. Wheel-rotor,
54. Rotor on axle—
55. Geared,
56. Plane field,
57. Balanced cylindrical field,
58. Twin fields,
59. Motor-coolers,
60. Insulation,
61. Control,

105.—**RAILWAY ROLLING-STOCK**—Continued.
Locomotives—Continued.
62. Explosive-engines,
63. Pneumatic—
64. Pump and motor,
65. Storage,
66. Propeller,
67. Spring—
68. Elliptic,
69. Coil,
70. Torsion,
71. Spiral,
72. Gravity,
73. Traction-regulators—
74. Airplane,
75. Variable driver-load,
76. Electric,
77. Electromagnetic—
78. Wheel or axle,
79. Inside drive-boxes—
80. Lateral motion,
81. Wedge adjustment,
82. Equalizers,
84. Connecting-rods,
85. Drive-wheel turners.
86. **Trackman's-car drive**—
87. Vertical hand-lever,
88. Horizontal hand-lever,
89. Hand-crank—
90. Car-pusher,
91. Pedal-crank—
92. On axle,
93. Treadle,
94. Rockable seat,
95. Bicycle conversion.
96. **Wheel or axle drive**—
97. Planetary,
98. Tandem drive,
99. Articulated radial,
100. Epicyclic drive-wheels,
101. Belt-gear—
102. To rotor—
103. Double loop,
104. To crank-shaft,
105. Belt-tightener—
106. Swinging motor,
107. Sliding motor,
108. Plane gear—
109. To bevel-gear,
110. To belt,
111. To pitman and rotor,
112. Engaging traction-wheel,
113. To rotor—
114. Engaging traction wheel,
115. With crank-shaft—
116. Engaging traction-wheel,
117. Bevel-gear—
118. To rotor,
119. Worm-gear,
120. Pitman to jack-shaft—
121. Geared,
122. Pitman to rotor,
123. Pitman to lever,
124. Pawl and ratchet—
125. Pawl on axle-bracket—
126. Winding-drum,
127. Rack and pinion,
128. One-way friction-grip,
129. Flange or axle grip tool,
130. Clutches,
131. Resilient drive,
132. Loose link.
133. **Motor placement**—
134. Cable-grip,
135. Opposing-torque equalizer,
136. Axle-mounting—
137. Stator-casings,
138. Bar-supports—
139. With springs,
140. Boxings and casings.
141. **Monorail**—
142. Human balance,
143. Animal draft,
144. With side guides—
145. Raised center rail,
146. Overhead guides,
147. Single top guide.
148. **Suspended**—
149. Car-leveler,
150. Single rail—
151. Cable-retainers,
152. Equalized trolleys,
153. Under rolls,
154. Inner wheels,
155. Outer wheels,
156. Vertical swivels.
157. **Trucks**—
158. Modified car,
159. Vehicle-carrying,
160. Bunk,
160.5. Lumber,
161. Mining-machine,
162. Trackman's car,

105.—**RAILWAY ROLLING-STOCK**—Continued.
Trucks—Continued.
163. Overhead cranes,
164. Levelers,
165. Radial—
166. Six-wheel,
167. Bogie—
168. Positive control,
169. Stub-axle,
170. Caster-wheel type,
171. Lateral motion,
172. Locomotive-frames—
173. Buffer-beams,
174. Swinging bogie,
175. Articulated,
176. Interconnected,
177. Multidirectional,
178. Changeable gage,
179. Vertical side pivot,
180. Stub-axle,
181. Antifriction-wheels,
182. Bogie—
183. Eight-wheel,
184. Maximum traction,
185. Lateral-motion bolster—
186. Roller,
187. Rocker,
188. Six-wheel,
189. Center-plate,
190. Swinging—
191. On column guide,
192. Span-supported,
193. Bolster-damper,
194. Equalizers—
195. Six-wheel,
196. Six-wheel,
197. Spring-bolster—
198. Rocking,
199. Body connections,
200. Bolster connections—
201. Lateral motion,
202. Combined transom and bolster—
203. Rocking,
204. Arch-bar type—
205. Integral,
206. Side frames,
207. Bolster-guides—
208. Spring planks and transoms,
209. Equalizers,
210. Parallel depression,
211. Platform—
212. Spring—
213. Side-frame base—
214. Integral U-yoke,
215. Supplemental wheels,
216. Supplemental skids,
217. Safety-supports,
218. Axle-box mounting—
219. Permanent fixture,
220. Detachable fixture,
221. Releasable incloser,
222. Longitudinally movable,
223. Rocking,
224. Springs and guides,
225. Wear-plates,
226. Bolsters—
227. Double,
228. Center-sill connection,
229. Trussed,
230. Cast.
231. **Tender**—
232. Coal-feed—
233. Reciprocatory plunger,
234. Screw,
235. Tilting pan,
236. Tanks,
237. Coal-bin.
238. **Special car-bodies**—
239. Dumping—
240. Motor-operated doors,
241. Moving-car dump,
242. Suspended,
243. Convertible flat and hopper bottom,
244. Gondola drop-bottom—
245. Central ridge,
246. Rising ridge,
247. Hopper type—
248. Multiple hopper—
249. Facing center chute,
250. Longitudinal doors—
251. Center-sill separator,
252. Side-chute bridge,
253. Transverse doors,
254. Inclined bottom—
255. Opposite doors,
256. Side-spout gondola,
257. Shifting,
258. Side-door gondola—
259. Plow-car,
260. Coupled side and bottom,

* See Definitions of Revised Classes.

105.—RAILWAY ROLLING-STOCK—Continued.
Special car-bodies—Continued.
Dumping—Continued.
261. Tilting body—
262. Inwardly-dumping section
263. Outwardly-dumping section,
264. Rolling tilt—
265. With motor,
266. Worm-gear,
267. Screw,
268. Cam-track tilt,
269. Slide and tilt,
270. Pivoted—
271. With motor,
272. Off center—
273. Power-hoist,
274. One-side dump—
275. Horizontal rotary,
276. Displaceable sides—
277. Bodily movable,
278. Body prop and tie,
279. Aprons and baffles,
280. Doors—
281. Interchangeable hinge,
282. Sliding,
283. Offset pivot,
284. Link-swing,
285. Buffers,
286. Door-actuators—
287. Serial and selecti[illegible],
288. Multiple door—
289. Interconnected—
290. Links—
291. With hook
292. Chains,
293. Creeping shaft—
294. Rack and pinion,
295. Chain-wind,
296. Crank-shaft—
297. Creeping,
298. U-crank,
299. Crank and link,
300. Chain-winder—
301. Creeping-shaft lock,
302. Tension lock-shifter,
303. Terminal hook,
304. Toggle or strut,
305. Rack and pinion,
306. Lever or chain,
307. Screw or worm,
308. Door-lock—
309. Shifting shaft,
310. Door-actuator operated,
311. Control—
312. Ratchet-handle,
313. Shaft-lock,
314. Sleeping—
315. Arrangement,
316. Berths—
317. Vertically movable—
318. With hoist,
319. Collapsible,
320. Hammock type,
321. Hinged,
322. Seat-back and upper,
323. Partitions,
324. Curtains and rods,
325. Article-holders,
326. Ladders and steps,
327. Dining,
328. Merchandizing,
329. Passenger—
330. Rolling,
331. Combined open and closed,
332. Convertible open and closed—
333. Vertical sliding panel—
334. Roof storage,
335. Drop storage,
336. Seat-back panel,
337. Removable sides,
338. Removable panels,
339. Spaced sliding doors,
340. Double deck.
341. Entrance and exit control,
342. Motorman's compartment,
343. Door arrangement,
344. Passenger placement—
345. Seats—
346. Open car—
347. End panels,
348. Emergency-exits—
349. Automatic,
350. Dust-guards—
351. Car-bottom—
352. With collector,
353. Storm-fronts,
354. Hand-straps,
355. Freight—
356. Rolling,
357. Vacuum-wall,

105.—RAILWAY ROLLING-STOCK—Continued.
Special car-bodies—Continued.
Freight—Continued.
358. Tank—
359. Combined freight,
360. Tank form,
361. Longitudinally slidable,
362. Saddle and anchors
363. Knockdown body,
364. Mine,
365. Tubular way,
366. Removable units,
367. Special article—
368. Automobile,
369. Load-braces,
370. Convertible deck—
371. Sectional—
372. Side hinge,
373. Tiered crates and slides,
374. Interior end buffers,
375. Auxiliary floors,
376. Partitions,
377. Removable covers,
378. Movable side sections,
379. Extension side walls.
380. Stakes—
381. Side-folding,
382. Releasable—
383. Pocket-openers,
384. Direct detent,
385. Horizontal slide,
386. Vertical slide,
387. Collapsible,
388. Chain release,
389. Telescopic,
390. Pockets—
391. Folding,
392. Freight-contacting rollers,
392.5. Shock-absorbing,
393. Expansible,
394. Armored and protected,
395. Automatic door-lock.
396. **Car framing and structure—**
397. Passenger—
398. Depressed side door,
399. Truss,
400. Continuous rib,
401. Metal sheathing,
402. Ends—
403. Cast,
404. Freight—
405. Concrete,
406. Gondola,
407. Truss,
408. Timber-pockets,
409. Metal sheathing—
410. Ends,
411. Braces,
412. Shrinkage take-ups,
413. Underframes,
414. Metallic—
415. Cast,
416. Mono-center-sill type,
417. Spread-center-sill type,
418. Longitudinal sills,
419. Cross-bearers,
420. Draft-sill framing,
421. End sills.
422. **Floors.**
423. **Linings.**
424. **Antileak-joints.**
425. **Platforms—**
426. Trap-doors—
427. Operated with gate and step,
428. Diagonal sectional,
429. With gate,
430. With steps—
431. Convertible,
432. Actuators—
433. Lateral shifter,
434. Spring,
435. Locks and starters,
436. Side gangway.
437. **Steps with gate—**
438. Convertible.
439. **Side guards—**
440. Single passage—
441. Seat-shifter,
442. Long drop-bar
443. **Steps—**
444. Electric control,
445. Pneumatic control,
446. Car-movement control,
447. Folding—
448. Z-fold riser,
449. Slidable,
450. Cover.
451. **Heating devices.**
452. **Sound-deadeners.**
453. **Body suspension and springs.**
454. **Longitudinally-movable body.**
455. **Horizontal rotary.**
456. **Cabs.**

105.—RAILWAY ROLLING-STOCK—Continued.
457. **Running-boards and rails.**
458. **Safety-bridges—**
459. Locomotive and tender.
460. **End footboards.**
461. **Grab-irons.**

106.—PLASTIC COMPOSITIONS.*
1. **Miscellaneous.**
1.5 **Sound-record.**
1.6. **Type or matrix.**
2. **Battery-jars.**
3. **Boot heels and soles.**
4. **Cob pipes and fillings.**
5. **Crayons and pencils.**
5.5. **Inking-roller type.**
6. **Dental.**
7. **Floor-cloth.**
7.5. **Tractive-surface type.**
8. **Luting.**
9. **Fire-brick and refractory linings—**
10. Argillaceous.
11. **Fire-hardened.**
12. **Electrical insulating—**
13. Rubber,
14. Soluble silicates,
15. Bituminous and resinous—
16. Tar,
17. Wax.
18. **Heat-insulating—**
19. Soluble silicates,
20. Plaster of Paris,
21. Argillaceous.
22. **Artificial ivory and hard rubber.**
23. **Artificial rubber.**
24. **Artificial stone—**
25. Hydraulic cement—
25.5. Slag,
26. Argillaceous.
27. Indurating,
28. Retarders,
29. Oxychlorid and oxysulfate,
30. Soluble silicates,
31. Bituminous and resinous—
32. Tar,
33. Wax,
34. Plaster of Paris,
35. Argillaceous.
36. Gelatinous and gummy.
36.1. **Glass—**
36.2. Enamel,
36.3. Slag.
37. **Pyroxylin.**
38. **Proteids.**
39. **Gelatinous and gummy.**
40. **Viscose and cellulose.**

107.—BREAD, PASTRY, AND CONFECTION MAKING.*
1. **Composite cake and confection apparatus.**
2. **Shredded-cereal-biscuit apparatus.**
3. **Starch-molding apparatus.**
4. **Combined machines—**
5. Printing and cutting lozenges,
6. Cutting and distributing.
7. **Miscellaneous.**
8. **Molding apparatus—**
9. Loaf-forming,
10. Rolling—
11. Pills,
12. Sheeting,
13. Axial,
14. Die-expressing,
15. Presses—
16. Popcorn,
17. Tablet—
18. Stationary mold,
19. Molds.
20. **Cutting apparatus—**
21. Knife—
22. Circular,
23. Rotary die,
24. Reciprocating die—
25. Dough-feeding,
28. Internal plunger,
27. **Depositing apparatus—**
28. Valve cut-off—
29. Transversely reciprocating.

*See Definitions of Revised Classes.

107.—BREAD, PASTRY, AND CONFECTION MAKING—Continued.
- 30. **Mixers, kneaders, and beaters—**
- 31. Aerating,
- 32. Moving receptacle—
- 33. Rotating,
- 34. Roller,
- Rotary dasher—
- 36. Multiple,
- 38. Single—
- 40. Horizontal.
- 43. **Sizing and salting apparatus.**
- 44. **Cleaning apparatus.**
- 45. **Stacking and packing apparatus.**
- 46. **Pastry-boards.**
- 47. **Implements—**
- 48. Ice-cream dishers,
- 49. Pie crimpers and trimmers,
- 50. Rolling-pins,
- 51. Cutters,
- 52. Depositors,
- 53. Mixers, kneaders, and beaters,
- 54. **Processes.**
- 55. **Bakers' ovens—**
- 56. Charging and removing devices—
- 57. Endless carrier—
- 58. Automatic pans or forms,
- 59. Reel,
- 60. Rotary hearth,
- 61. Wagon-ovens,
- 62. Knockdown or separable,
- 63. Fluid-circuit or indirect heating,
- 64. Attachments,
- 65. Doors,
- 66. Forming and baking plates,
- 67. Baker's peel.

108.—ROOFS.*
- 1. **Miscellaneous.**
- 4. **Observatory-domes.**
- 5. **Car—**
- 5.1. Monitor,
- 5.2. Lined—
- 5.3. Metal lining,
- 5.4. Metal,
- 5.5. Frames—
- 5.6. Carlines,
- 5.7. Carline-brackets,
- 5.8. Flashings,
- 5.9. Clips.
- 16. **Skylights—**
- 31. Operating devices.
- 2. **Adjustable.**
- 3. **Portable.**
- 32. **Pyramidal.**
- 6. **Composite—**
- 6.5. Fireproof.
- 7. **Fabric.**
- 8. **Slate and shingle—**
- 9. Laying.
- 10. **Tile.**
- 11. **Thatch.**
- 12. **Lap-joint.**
- **Metallic—**
- 13. Miscellaneous,
- 17. Shingle,
- 18. Rib-seam—
- 19. Capped,
- 20. Standing seam—
- 21. Capped,
- 22. Interlocking lap-seam.
- 23. **Trusses.**
- 24. **Ridges.**
- 25. **Valleys.**
- 26. **Flashings.**
- 27. **Fenders.**
- 28. **Eaves-troughs—**
- 29. Hangers,
- 30. Strainers.

109.—SAFES.
- 1. **Burglar-proof.**
- 4. **Circular door.**
- 5. **Express.**
- 2. **Fireproof.**
- 6. **Gas and explosives.**
- 11. **Pressure mechanism.**
- 3. **Safe-boltwork—**
- 9. Automatic.
- 10. **Safe-filling.**
- 7. **Safety deposit.**
- 12. **Safety-deposit boxes.**
- 8. **Water and air.**

110.—FURNACES.*
- 1. Furnace structure—
- 3. Cremation,
- 3.5. Forge,
- 5. Straw burners and feeders—
- 6. Fire-box, exterior, detachable—
- 7. Wet fuel—
- 8. Garbage and sewage—
- 9. Dry closets,
- 10. Steam-boiler,
- 11. Closed retort,
- 12. Reverbatory platform.
- 13. Rotary grate, vertical axis,
- 14. Rotary retort,
- 15. Drying-conveyer,
- 16. Underfeed,
- 17. Fuel-support above grate,
- 18. Refuse—
- 19. Brush, portable,
- 20. Stubble,
- 21. Stump,
- 22. Gas or oil and solid fuel,
- 23. Multiple series,
- 24. Coking—
- 25. Gas passing under grate,
- Double fire-box—
- Alternate smoke return—
- 26. Over fire,
- 27. Under fire,
- 28. Fine fuel burned in suspension,
- 29. Magazine—
- 30. Cage-grate,
- 31. Gas-producer,
- 32. Progressive feed—
- 33. Grate—
- 34. Boiler-controlled,
- Rotary—
- 35. Horizontal axis,
- 36. Vertical axis,
- 37. Raking-bar,
- 38. Reciprocating bar,
- 39. Rocking bar,
- 40. Chain—
- 41. Multiple fuel,
- 42. Locomotive,
- 43. Bridge-wall feed,
- 44. Underfeed—
- Center feed—
- 45. Continuous,
- 46. Separate charges,
- Progressive-feed grate—
- 47. Double,
- 48. Single,
- 49. Smoke and gas return—
- 50. Locomotive,
- 51. Before passing boiler-flues—
- 52. From fire-box,
- 53. Feeding air and steam—
- 54. Boiler-controlled,
- 55. Time-limit,
- 56. Heaters—
- 57. Locomotive,
- 58. Meeting furnace-gases,
- 59. Horizontal base,
- 60. Fire-box—
- 61. Locomotive,
- 62. Superimposed—
- 63. Intermediate draft,
- 64. Interstitial outlet,
- 65. Drop-arch,
- 66. Door and bridge-wall arch,
- 67. Door-arch,
- 68. Bridge-wall arch,
- 69. Undergrate—
- 70. Locomotive,
- 71. Deflectors,
- 72. Feeding air—
- 73. Horizontal base,
- 74. Hollow grate,
- 75. Fire-box—
- 76. Locomotive,
- 77. Double,
- Feeding steam and water—
- 78. Undergrate,
- 79. Feeding steam—
- 80. Fire-box,
- 81. Feeding water,
- 4. Horizontal cylindrical boiler,
- 82. Horizontal base,
- 83. Reversible draft,
- 84. Downdraft,
- 85. Grateless,
- 86. Fire-box—
- 87. Locomotive,
- 88. Exterior, detachable,
- 89. Adjustable.
- 90. Superimposed—
- 91. Intermediate draft,
- 92. Interstitial outlet,
- 93. Drop-arch,
- 94. Door and bridge-wall arch,
- 95. Door-arch,
- 96. Bridge-wall arch,

110.—FURNACES—Continued.
- Furnace structure—Continued.
- 97. Baffles and heat-retainers—
- 98. Water-tube boilers,
- 99. Arches.
- 100. By-pass flue.
- 101. **Fuel-feeders—**
- 102. Shavings and sawdust
- 103. Boiler-controlled,
- 104. Blower—
- 105. Hopper,
- 106. Pulverizer,
- 107. Bridge-wall,
- 108. Hopper—
- Pusher—
- 109. Reciprocating,
- 110. Screw,
- Spreader—
- Carrier—
- 111. Door,
- 112. Oscillating,
- 113. Reciprocating plunger,
- 114. Rotary,
- 115. Chute—
- Door—
- 116. Multiple charge,
- 117. Vertical drop.
- 118. **Spark-arresters—**
- 119. Furnace-conductor,
- 120. Combined stack and smoke-box,
- 121. Smoke-box—
- 122. Draft-regulator,
- 123. Divided,
- 124. Hood,
- 125. Vertical drum,
- 126. Ejector,
- 127. Water-receptacle,
- 128. Discharge-valve.
- 129. **Spark and smoke conductors—**
- 145. Train.
- 146. **Draft-regulators—**
- 147. Separation of gases,
- 148. Steam-injector,
- 150. Smoke-box—
- Feeding air—
- 157. Door-operated,
- 158. Stack—
- 159. Portable,
- 160. Air-jet—
- 161. Steam injected,
- 162. Fan-exhaust,
- 163. Damper.
- 165. **Ash receiving and handling devices—**
- 166. Ash-pans—
- 167. Dumping—
- 168. Conjoined floor-sections,
- 169. Reciprocating discharge-valve,
- 170. Scraper,
- 171. Steam and water attachments.
- 172. **Fronts.**
- 173. **Doors—**
- 174. Feeding air and steam,
- 175. Feeding air,
- 176. Operators—
- 177. Motor,
- 178. Pedal,
- 179. Fluid-screens.
- **Doors and casings—**
- 180. Cooling.
- 181. **Door casings and arches—**
- 182. Feeding air.
- 182.5. **Tuyers—**
- 182.6. Forge.
- 184. **Smokestacks.**

111.—PLANTING.*
- 1. **Miscellaneous.**
- 2. **Plant-setting—**
- 3. Drilling-machines,
- 4. Manually-operated implements.
- 5. **Pipe or strand.**
- 6. **Liquid or gas.**
- 7. Drilling-machines.
- 8. **Drilling and broadcasting—**
- 9. Main and auxiliary frame machines.
- 10. **Broadcasting—**
- 11. Machines with scatterer—
- 12. Main and auxiliary frame,
- 13. Main and auxiliary frame machines.

* See Definitions of Revised Classes.

111.—PLANTING—Continued.
- 14. Drilling—
- 15. Hill-planting machines—
- 16. Check-correcting—
- 17. With automatic regulator.
- 18. Frame and planting-element arrangement—
- 19. With tractive-belt feed-drive,
- 20. Sectional main frame—
- 21. Break-joint,
- 22. Main and auxiliary frame—
- 23. Rotary-marker operator,
- 24. Hopper-carrying auxiliary,
- 25. Depositing and marking mechanisms—
- 26. Powder-marking,
- 27. Driving-marker—
- 28. Revolving,
- 29. Driven marker—
- 30. Plunging—
- 31. Hill-covering,
- 32. Revolving,
- 33. Marking mechanisms,
- 34. Depositing mechanisms—
- 35. Interchangeably operable,
- 36. Primarily axle-driven—
- 37. Intermittently controlled—
- 38. Check-wire tripped—
- 39. Both feeder and valve,
- 40. With wire-actuated valve,
- 41. With wire-actuated valve,
- 42. Endless-belt tripped,
- 43. Line-wire driven—
- 44. Reel-carried,
- 45. Check-wire tripped—
- 46. Both feeder and valve,
- 47. Trip-fork mechanisms,
- 48. Guides,
- 49. Wire-end-anchoring devices,
- 50. Manually operated,
- 51. Accumulators,
- 52. Frame and planting-element arrangement—
- 53. Sectional main frame—
- 54. Flexible—
- 55. With auxiliary frame,
- 56. Break-joint,
- 57. Extensible—
- 58. V-shaped,
- 59. Main and auxiliary frame—
- 60. Plurality of auxiliaries—
- 61. Unitarily controlled,
- 62. Floating auxiliary—
- 63. Hopper-carrying—
- 64. Detachable—
- 65. Single row,
- 66. Tool-bar type—
- 67. With lift and ungear,
- 68. With crank-axle lift,
- 69. With adjustable planter elements,
- 70. Rigid—
- 71. Single row—
- 72. Manually-operated depositing mechanism,
- 73. Multiple depositing,
- 74. Revolving hopper,
- 75. Vibrating hopper,
- 76. Vibrating delivery-chute.
- 77. Rotating dispenser—
- 78. Axle-mounted,
- 79. Single-row implements—
- 80. Multiple depositing,
- 81. Planter-element arrangement,
- 82. Hand-propelled,
- 83. Lister units,
- 84. Drag-bar units,
- 85. Drill sets,
- 86. Drill-teeth—
- 87. Rotary furrower—
- 88. Multiple disk.
- 89. Dibbling.
- 90. Revolving-hopper implements—
- 91. Revolving-dibble-carrier implements,
- 92. Manually-operated implements—
- 93. Machine-attached,
- 94. Spacing in hill,
- 95. Regulated discharge—
- 96. Sliding-plunger control,
- 97. Multiple-staff control,
- 98. Footplate control,

112.—SEWING-MACHINES.*
- 1. Miscellaneous.
- 2. Special machines—
- 3. Mattress-sewing,
- 4. Jacquard-card sewing,
- 5. Lacing shoe-uppers,
- 6. Broom-sewing,
- 7. Carpet-sewing—
- 8. Clamps,
- 9. Rug-sewing,
- 10. Bag-sewing,
- 11. Sewing filled sacks,
- 12. Sewing hats—
- 13. Work-supports—
- 14. Rotary,
- 15. Guides and gages,
- 16. Glove and fur sewing—
- 17. Dyeing feature,
- 18. Work holding and feeding—
- 19. Clamp,
- 20. Guiding,
- 21. Book-sewing—
- 22. Knotting,
- 23. Straw braid,
- 24. Straw-sewing,
- 25. Looped fabrics—
- 26. Preparing,
- 27. Work holding and feeding.
- 28. Leather-sewing—
- 29. Shoe-sole—
- 30. Separating and indenting,
- 31. Tack-pulling,
- 32. Fair-stitch,
- 33. Loop-lock,
- 34. Tongue-lock,
- 35. Chain-stitch—
- 36. Curved needle,
- 37. Lock-stitch—
- 38. Curved needle—
- 39. Oscillating and rotating shuttle,
- 40. Back gages and rests,
- 41. Guards,
- 42. Heating,
- 43. Waxing,
- 44. Lubricating and moistening,
- 45. Welt slitting and beveling,
- 46. Channeling,
- 47. Welt-handling,
- 48. Feeding—
- 49. Awl,
- 50. Needle,
- 51. Channel-guides,
- 52. Edge and crease guides,
- 53. Welt-guides,
- 54. Chain-stitch,
- 55. Lock-stitch,
- 56. Thread-handling—
- 57. Orbital-movement loopers,
- 58. Cast-offs,
- 59. Take-ups,
- 60. Pull-offs,
- 61. Tensions,
- 62. Presser devices—
- 63. Locking,
- 64. Work-supports,
- 65. Tube-forming,
- 66. Fringe-forming,
- 67. Buttonhole—
- 68. Eyelet-making,
- 69. Start and stop mechanism,
- 70. Cutting,
- 71. Thrum mechanism,
- 72. Clamp-feeding—
- 73. With rotatable needle-bar,
- 74. Right line and rotary,
- 75. Vibrating needle,
- 76. Spreading,
- 77. Gaging,
- 78. Clamps,
- 79. Attachments,
- 80. Embroidering—
- 81. Turfing—
- 82. Hand implements,
- 83. Hemstitch—
- 84. Universal feed,
- 85. Horizontal needle—
- 86. Pattern-controlled—
- 87. Boring,
- 88. Fabric-shifting,
- 89. Stopping,
- 90. Article-attaching,
- 91. Boring,
- 92. Fabric-shifting—
- 93. Balancing—
- 94. Spring,
- 95. Stitch-forming—
- 96. Short-thread,
- 97. Shuttle type,
- 98. Thread take-up,
- 99. Thread-tension,

112.—SEWING-MACHINES—Continued.
- Special machines—Continued.
- Embroidering—Continued.
- 100. Vertical needle—
- 101. Attaching ornaments—
- 102. Thread—
- 103. Attachments,
- 104. Fabric-shifting—
- 105. Frames,
- 106. Article-attaching—
- 107. Hook and eye—
- 108. Feeding,
- 109. Carriers,
- 110. Eye-shank button—
- 111. Vibrating needle,
- 112. Flat button—
- 113. Vibrated needle,
- 114. Vibrated clamp,
- 115. Feeding,
- 116. Clamps,
- 117. Attachments,
- 118. Crocheting,
- 119. Quilting—
- 120. Fabric-shifting—
- 121. Frames,
- Work-manipulating—
- 122. Trimmers—
- 123. With stitching mechanism,
- 124. Rotary,
- 125. Manual control,
- 126 Laterally adjustable,
- 127. Ply-separating,
- 128. Needle-bar operated,
- 129. Cutters,
- 130. Severing,
- 131. Creasers and markers,
- 132. Rufflers and gatherers—
- 133. Smocking,
- 134. Attachments—
- 135. Vibrating blade,
- 136. Guides—
- 137. Binders—
- 138. Strip-reversing,
- 139. Braiders and corders,
- 140. Blind stitch,
- 141. Hemmers—
- 142. Lap-seam,
- 143. Adjustable,
- 144. Tucking—
- 145. Box-plait,
- 146. Spacing,
- 147. Folding,
- 148. Fabric-holding,
- 149. Fringe-turning,
- 150. Pressure,
- 151. Presser-bar attached.
- 152. Strip,
- 153. Edge.
- 154. Stitch-forming—
- 155. Multiple machines,
- 156. Knot-tying,
- 157. Zigzag—
- 158. Vibrating needle—
- 159. Shifting looper,
- 160. Surging,
- 161. Purling,
- 162. Overseaming,
- 163. Multiple needle—
- 164. Shuttle type,
- 165. Chain and double chain—
- 166. Multiple looper,
- 167. Adjustable,
- 168. Convertible,
- 169. Hand implements,
- 170. Short thread—
- 171. Double-pointed needle,
- 172. Overedge,
- 173. Running stitch—
- 174. Crimping,
- 175. Stationary needle,
- 176. Blind stitch—
- 177. Overseaming,
- 178. Work-handling,
- 179. False hemstitch,
- 180. Bobbin-ejector,
- 181. Revolving-hook type—
- 182. Timing,
- 183. Reciprocating bobbin,
- 184. Vertical axis,
- 185. Shuttle type—
- 186. Shuttle-replenishing.
- 187. Loop-spreaders,
- 188. Bobbin-latch,
- 189. Rotary—
- 190. Timing,
- 191. Vertical axis,
- 192. Oscillatory—
- 193. Vertical axis,
- 194. Reciprocatory—
- 195. Longitudinal,
- 196. Holders and raceways,

* See Definitions of Revised Classes.

112.—SEWING-MACHINES—Continued.
Stitch-forming—Continued.
197. Chain or double chain—
198. Hooked needle,
199. Oscillating or reciprocating looper,
200. Four-motion looper,
201. Rotating looper,
202. Vertical-axis looper,
203. Feeding—
204. Universal,
205. Irregular,
206. Needle and helper,
207. Clamp,
208. Differential—
209. Adjustment,
210. Adjustment—
211. Rotary,
212. Upper—
213. Needle,
214. Rotary,
215. Four-motion,
216. Dogs,
217. Seam-finishing.
218. **Elements**—
219. Starting and stopping,
220. Driving mechanisms—
221. Needle,
222. Needles—
223. Thread-releasing,
224. Threading structure,
225. Setting and threading attachments,
226. Clamping,
227. Guiding,
228. Revolving hooks—
229. Bobbin-tensioning,
230. Sectional,
231. Bobbin holders and casings,
232. Shuttles—
233. Tensioning,
234. Longitudinally reciprocating,
235. Presser devices—
236. Embroidering and darning,
237. Lifting—
238. With tension release,
239. Automatic,
240. Detachable connections,
241. Take-ups—
242. Pull-offs—
243. Automatic control,
244. Presser-bar controlled,
245. Needle-bar actuated,
246. Adjustable,
247. Resilient,
248. Rotary,
249. Stationary cam,
250. Clamp-carrying,
251. Bobbins,
252. Thread-cutting,
253. Thread-end clamps,
254. Tensioning—
255. Intermittent,
256. Lubricating,
257. Attachment-holders,
258. Frames—
259. Heads,
260. Work-supports,
261. Guards.
262. **Methods and seams**—
263. Hat-sewing,
264. Buttonhole,
265. Article-attaching,
266. Embroidery,
267. Blind stitch—
268. Overedge,
269. Overedge.

111.—SHEET-METAL WARE—MAKING.*
1. **Miscellaneous.**
7. **Can-making machines**—
8. Body-forming and side-seaming—
9. Soldering—
10. Blank-feeding,
11. Blank-feeding,
12. Side-seaming,
Head-seaming—
13. Soldering,
14. Feeding and applying,
15. Rip-seam making,
16. Die—
17. Axial rolling,
18. Sectional,

113.—SHEET-METAL WARE—MAKING—Continued.
Can-making machines—Con.
Head-seaming—Continued.
19. Roller—
Rotary chuck—
20. Pattern-controlled tool—
21. Automatic clutch,
22. Laterally-rocking tool-holder,
23. Stationary seaming-tool,
Stationary chuck—
Rotary seaming-tool—
24. External,
25. Internal,
Head feeding and applying—
Body-feeding—
26. Chute,
27. Endless-chain carrier,
28. Rotary-drum carrier,
29. Rotary-table carrier,
30. Head-applying—
31. Sectional guide.
32. **Pens and penholders.**
33. **Tube-making**—
34. Side-seam compressing,
35. Spiral seaming,
Transverse seaming—
36. Die,
37. Roller.
38. **Die-shaping**—
38.1. Necking cartridge-cases,
39. Dental,
40. Eyelets,
40.5. Lacing-studs,
41. Rolling hollow bodies,
42. Cutting—
42.5. Shoe-shank stiffeners,
43. Combined machines,
44. Fillers and forcers,
45. Fluid-operated,
46. Drawing,
47. Roller and concave,
48. Expanding die,
49. Dies and die-holders,
50. Ejectors,
51. Processes.
52. **Spinning**—
53. Carriage-feed, pattern-controlled.
Seaming-machines—
54. Compressing and folding—
55. Roofers' carriages,
56. Roofers' tongs,
Compressing—
57. Die,
58. Roller.
59. **Soldering**—
Cans—
60. Side seam—
Endless-chain carrier—
61. Bath,
62. Soldering-iron,
63. Reciprocating carrier,
Rotary-table carrier—
64. Bath,
65. Flame,
66. Soldering-iron,
67. Head-seam—
68. Axial rolling,
Rotary chuck—
69. Bath,
70. Flame,
71. Soldering-iron,
Endless-chain carrier—
72. Bath,
73. Flame,
74. Soldering-iron,
Rotary-table carrier—
75. Bath,
76. Flame,
77. Soldering-iron,
78. Bath,
79. Flame,
80. Cap-preparing, solder-affixing, and gasket-applying,
81. Cap—
82. Hermetic,
Rotary chuck—
83. Flame, endless-chain carrier,
84. Stationary tool—
85. Endless-chain carrier,
86. Rotary-table carrier,
87. Rotary tool—
88. Endless-chain carrier,
89. Rotary-table carrier,
90. Shifting tray,
91. Tipping,
92. Heat and pressure,
Solder-feeders—
93. Liquid,
94. Solid,

113.—SHEET-METAL WARE—MAKING—Continued.
Soldering—Continued.
Flux-feeders—
95. Liquid,
96. Solid,
97. Wipers,
98. Coolers,
99. Clamps—
100. Vessel,
101. Trough,
102. Pipe,
103. Expanding mandrel,
104. Adjustable arms,
105. Irons—
106. Capping—
107. Heaters—
108. Electric,
109. Solder-feeding,
110. Solder-forms,
111. Tools and appliances,
112. Processes.
113. **Work-feeders**—
114. Cap and head,
115. Can-body.
116. **Processes.**

114.—SHIPS.*
0.5. **Miscellaneous.**
1. **War-ships**—
2. Rams—
3. Battering,
4. Floating batteries,
5. Turret—
6. Combined elevating and rotary,
7. Elevating,
8. Rotary,
9. Armored—
10. Deflectors,
11. Belting and plating—
12. Compound—
13. Buffers,
14. Screens and shields,
15. Concealment.
16. **Submarine vessels**—
17. Torpedo-boats,
16.4. Life and vessel saving devices—
16.5. Buoys,
16.6. Escapes—
16.7. Boats or buoys,
16.8. Salvage.
18. **Torpedo-boats**—
19. Spar.
20. **Torpedoes**—
21. External control,
22. Separable sections,
23. Steering mechanism—
24. Gyroscope,
25. Depth regulation.
26. **Scows**—
27. Dumping and unloading—
28. Sectional—
29. Hinged,
30. Separable,
31. Platform—
32. Tilting—
33. Carriers,
34. Conveyers,
35. Side doors,
36. Bottom doors—
37. Flooding-gates,
38. Turnover.
39. **Sail-boats.**
40. **Ice-breakers**—
41. Rams,
42. Cutters.
43. **Ice-boats.**
44. **Vessel raising and docking**—
45. Floating dry-docks—
46. Sectional,
47. End-gates,
48. Elevators,
49. Camels, caissons, and pontoons,
50. Submerged—
51. Hoisting,
52. Air-tanks—
53. Camels, caissons, and pontoons,
54. Inflatable bags,
55. Sand and mud loosening.
56. **Form**—
57. Screw-propeller type,
58. Paddle-wheelers,
59. Spindle,
60. Canal and ferry boats,
61. Divided hull,
62. Concave bottom,
63. Flat bottom.

*See Definitions of Revised Classes.

114.—**SHIPS**—Continued.
- 65. **Building**—
- 66. Observation-boats,
- 66.5. Hydroplane-boats,
- 67. Antifriction-surfaces,
- 68. Insubmergible vessels—
- 69. Linings and fillings,
- 70. Canal and ferry boats,
- 71. Cabins,
- 72. Freighters—
- 73. Bulk cargo—
- 74. Liquid,
- 75. Antishifting devices,
- 76. Ceilings and floors,
- 77. Sectional,
- 78. Bulkhead and compartment,
- 79. Iron—
- 80. Corrugated,
- 81. Tubular,
- 82. Wood,
- 83. Bracing and staying,
- 84. Sheathing and planking,
- 85. Decks,
- 86. Calking and seaming,
- 87. Knees,
- 88. Joints.
- 89. **Spars**—
- 90. Masts and masting—
- 91. Swinging,
- 92. Cross and trestle trees,
- 93. Coats, shields, and steps,
- 94. Heads and irons,
- 95. Yards—
- 96. Trusses and parrels,
- 97. Gaffs, booms, etc.—
- 98. Pivoted,
- 99. Crotches and supports,
- 100. Spar-irons,
- 101. Fair-leaders and chocks.
- 102. **Sails and rigging**—
- 103. Sails—
- 104. Reefing and furling—
- 105. Fore-and-aft sails—
- 106. Rolling,
- 107. Rolling,
- 108. Fastening devices,
- 109. Rigging screws and stretchers—
- 110. Tension-relievers,
- 111. Running rigging,
- 112. Mast-travelers,
- 113. Hoops and connections,
- 114. Cringles and hanks,
- 115. Clews and thimbles.
- 116. **Bulkheads and doors**—
- 117. Doors—
- 118. Automatic—
- 119. Sliding,
- 120. Sliding.
- 121. **Ballasting**—
- 122. Antirolling,
- 123. Floats,
- 124. Shifting weights,
- 125. Water-tanks,
- 126. Fins and boards.
- 127. **Centerboards**—
- 128. Steering,
- 129. Multiple.
- 130. Vertical drop and pivoted swing—
- 131. Sectional,
- 132. Pivoted—
- 133. Sectional—
- 134. Fan,
- 135. Lateral,
- 136. Lateral swing,
- 137. Lateral tilt,
- 138. Vertical drop—
- 139. Sectional.
- 140. **Keels**—
- 141. Vertical adjustment,
- 142. Bilge,
- 143. Rocking.
- 144. **Steering mechanism**—
- 145. Speed-retarders,
- 146. Auxiliary,
- 147. Paddles and wheels—
- 148. Channels,
- 149. Keel,
- 150. Fluid-pressure—
- 151. Jet,
- 152. Fins,
- 153. Foot,
- 154. Wheel-shaft gearing—
- 155. Screw—
- 156. Intermediate gear,
- 157. Right and left—
- 158. Intermediate gear,
- 159. Segmental rack,
- 160. Wheel and drum—
- 161. Intermediate gear,

114.—**SHIPS**—Continued.

Steering mechanism—Con.
- 162. Rudders—
- 163. Multiple,
- 164. Auxiliary,
- 165. Hanging and shipping,
- 166. Tubular,
- 167. Sectional,
- 168. Jury,
- 169. Post bearings and heads,
- 170. Brakes—
- 171. Hydraulic,
- 172. Locks.
- 173. **Ports**—
- 174. Stoppers—
- 175. Gun-port,
- 176. Hinged,
- 177. Light and air—
- 178. Hinged covers.
- 179. **Hawse-pipes**—
- 180. Stoppers and covers,
- 181. Friction-rollers.
- 182. **Scuppers.**
- 183. **Bilge discharge**—
- 184. Ejectors—
- 185. Ship's motion,
- 186. Ash.
- 187. **Smokestacks.**
- 188. **Furniture**—
- 189. Cabins and state-rooms,
- 190. Life-preserver racks,
- 191. Self-leveling—
- 192. Berths—
- 193. Single pivot,
- 194. Chairs,
- 195. Tables.

Valves—
- 197. Boat-plugs,
- 198. Sea-cocks.
- 199. **Cable-stoppers**—
- 200. Chain.
- 201. **Hatches and covers**—
- 202. Sliding,
- 203. Fasteners.
- 204. **Travelers**—
- 205. Tension-relievers.
- 206. **Anchors**—
- 207. Fluke—
- 208. Pivoted,
- 209. Drags or sea-anchors.
- 210. **Anchor-trippers.**
- 211. **Ventilation**—
- 212. Valves.
- 213. **Tension-relievers**—
- 214. Fluid,
- 215. Cable,
- 216. Couplers—
- 217. Safety release.
- 218. **Bitts, cleats, and pin-rails.**
- 219. **Fenders**—
- 220. Roller.
- 221. **Implements**—
- 222. Hull-cleaning,
- 223. Rigging,
- 224. Calking, paying, etc.,
- 225. Spikes, pins, and fids,
- 226. Clamps.
- 227. **Leak-stoppers**—
- 228. Interior,
- 229. Aprons, mats, etc.
- 230. **Mooring devices**—
- 231. Ferry-slip.
- 232. **Oil-distributers**—
- 233. Ship structure,
- 234. Drags and floats.
- 235. **Towing**—
- 236. Steering mechanism—
- 237. Indicators.
- 238. **Torpedo-launching**—
- 239. Outboard.
- 240. **Torpedo-guards**—
- 241. Nets.

115.—**MARINE PROPULSION.***
- 0.5. **Miscellaneous.**
- 1. **Land and water boats**—
- 2. Pedomotors.
- 3. **Wind-motors.**
- 4. **Wave propulsion**
- 5. Oscillating weight.
- 6. **Towing**—
- 7. Cable systems,
- 8. Track systems,
- 9. Ground wheels or polers.
- 11. **Jet**—
- 12. Steering,
- 13. Explosive,
- 14. Hydraulic
- 15. Pneumatic drive,
- 16. Wheel-drive.

115.—**MARINE PROPULSION**—Con.
- 19. **Buoyant propeller**—
- 20. Rotary hull.
- 21. **Manual power**—
- 22. Catamaran,
- 23. Paddle-wheel,
- 24. Screw.
- 25. **Marine pedomotors**—
- 26. Catamaran,
- 27. Bicycle-propelled.
- 34. **Screw-propeller**—
- 35. Steering,
- 37. Multiple screw—
- 38. Side,
- 39. Channel or way,
- 40. Self-clearing,
- 41. Depth regulation,
- 42. Casing or shield,
- 43. Propeller-shaft brakes.
- 49. **Paddle-wheel**—
- 50. Steering,
- 52. Horizontal or inclined,
- 53. Channel or way,
- 54. Depth regulation.
- 63. **Chain-propeller**—
- 64. Steering and adjustable.
- 66. **Crank-paddle**—
- 67. Steering and adjustable.
- 17. **Portable propellers**—
- 18. Steering.
- 28. **Oscillating propellers**—
- 29. Steering.
- 30. Reversing.
- 31. **Reciprocating propellers**—
- 32. Steering,
- 33. Reversing.

116.—**SIGNALS AND INDICATORS.***
- 1. **Miscellaneous.**
- 2. **Combined functions**—
- 3. Horns with lamps,
- 4. Alarms with indicators—
- 5. Burglar or fire,
- 6. Burglar-alarms—
- 7. Light-producing,
- 8. Locks—
- 9. Doorknob-controlled—
- 10. Combined knob and bell,
- 11. Detonating,
- 12. Door-securing—
- 13. Braces,
- 14. Chain or link,
- 15. Detonating,
- 16. Sash-fastening—
- 17. Detonating.
- 18. **Code-signaling**—
- 19. Ship's course,
- 20. Heliographic.
- 21. **Ships' telegraphs.**
- 22. **Periodic**—
- 23. Detonating,
- 24. Horns and whistles,
- 25. Bells.
- 26. **Nautical**—
- 27. Submarine.
- 28. **Vehicle**—
- 29. Station-indicators,
- 30. Car and train markers,
- 31. Steering-wheel-position indicators,
- 32. Collision-released identification-tags,
- 33. Theft-preventing,
- 34. Tire inflation or deflation,
- 35. Motion and direction—
- 36. Combined with vehicle control,
- 37. Speed-controlled—
- 38. Governor-actuated,
- 39. Pneumatically operated,
- 40. Lazy-tong operated,
- 41. Fan type,
- 42. Window-exhibited sign or shutter—
- 43. Rotatable,
- 44. Sliding,
- 45. Movable cover or screen,
- 46. Rotatable—
- 47. Pointer—
- 48. Illuminated,
- 49. Illuminated casing,
- 50. Sliding,
- 51. Pivoted—
- 52. Laterally-swinging arm—
- 53. Multiple arms,
- 54. Illuminated,
- 55. Pneumatic train-pipe

* See Definitions of Revised Classes.

116.—**SIGNALS AND INDICATORS**—Continued.
Vehicle—Continued.
56. Vehicle-energy actuated—
57. Speed limit,
58. Pneumatic,
59. Diaphragm-horns,
60. Bells—
61. Friction-wheel,
62. Bicycle-pedal.
63. **Street traffic.**
64. **Elevator.**
65. **Pneumatic.**
66. **Learners' telegraph instruments.**
67. **Alarms**—
68. Elevator or hoist,
69. Rain,
70. Fluid-pressure variation,
71. Grist-mill,
72. Poison-container,
73. Operation-counting,
74. Speed limit,
75. Burglar—
76. Till,
77. Portable—
78. Drop detonating,
79. Knob-attached,
80. Key or keyhole,
81. Cord-controlled,
82. Floor-supported,
83. Detonating,
84. Pickpocket,
85. Closure-operated—
86. Door and window—
87. Detonating—
88. Reciprocating hammer—
89. Rotary release.
90. Gear and friction wheel,
91. Clockwork-bell—
92. Doorknob,
93. Automatic wind,
94. Cable control,
95. Single-stroke bell—
96. Doorknob,
97. Doorknob,
98. Tread-operated,
99. Portable receptacle,
100. Closure-operated,
101. Thermal—
102. Expansion control—
103. Fluid,
104. Ignition control—
105. Explosive,
106. Fusible control,
107. Buoy—
108. Whistling,
109. Liquid-level—
110. Float—
111. Clockwork-bell,
112. Fluid-flow,
113. Shoal water.
114. **Indicators**—
115. Shaft rotation,
116. Speed limit,
117. Fluid-flow,
118. Liquid-level,
119. Book,
120. Game,
121. Medicine-dose,
122. Elevator position,
123. Tube-guided signal element,
124. Position—
125. Valve,
126. Ship's rudder,
127. Brake-piston,
128. Grouped annunciators,
129. Rotary,
130. Hand-set—
131. Combined with changeable exhibitor,
132. Semaphore type,
133. Rotary,
134. Pivoted,
135. Sliding,
136. Peg.
137. **Horns and whistles**—
138. Motor exhaust or suction,
139. Manually-actuated air-compressor.
140. Variable tone,
141. Chime,
142. Diaphragm-horns—
143. Rotary striker—
144. Toothed wheel—
145. Parallel diaphragm.
146. Ball-contacts.
147. **Sirens.**
148. **Bells**—
149. Sound modification,
150. Swinging,
151. Pneumatic actuation,

116.—**SIGNALS AND INDICATORS**—Continued.
Bells—Continued.
152. Gong type—
153. Doorknob-contained,
154. Rotary,
155. Pivoted striker—
156. Multiple,
157. Multiple stroke—
158. Rotary striker—
159. Lever-operated,
160. Plunger-operated,
161. Escapement—
162. Clockwork type,
163. Double,
164. Spring-impact,
165. Pull cord or rod,
166. Bicycle-clamp,
167. Fixed, with pivoted striker,
168. Spiral-spring type,
169. Tube or rod type,
170. Animal and sleigh type,
171. Hand,
172. Bell pulls, cranks, and push-buttons.
173. **Flags and flagstaffs**—
174. Non-fouling,
175. Metallic flags.

117.—**SILK.**
1. **Assorting.**
4. **Doubling.**
5. **Silk.**
6. **Stretching.**
7. **Throwing.**
8. **Winding.**

118.—**SPINNING.***
1. **Miscellaneous.**
2. **Domestic.**
3. **Stopping**—
4. Electric,
5. Traverse-controlled,
6. Spinning-couple—
7. With feed-stop,
8. Driving mechanism.
9. **Strand guarding and guiding**—
10. Catching and holding,
11. Separators,
12. Thread-boards—
13. Spinning-spindle tip,
14. Lifting,
15. Traversing.
16. **Doffing or donning**—
17. Spinning-couples,
18. Mechanical.
19. **Clearing**—
20. Traveler.
21. **Intermittent**—
22. Mules—
23. Spindle-drive control—
24. Quadrant—
25. Faller-controlled,
26. Nosing attachment,
27. Faller control—
28. Copping-rail,
29. Feed control,
30. Carriages.
31. **Continuous**—
32. Regulation—
33. Fly-frame,
34. Drag,
35. Delivery-twist,
36. Curling,
37. With carding,
38. With drawing or feeding—
39. Twisting-head,
40. Driving—
41. Traversing,
42. Speed-adjusting,
43. Electric,
44. Turbine,
45. Gear—
46. Friction,
47. Band—
48. Tensioning.
49. **Spinning-couples**—
50. Spindle-tip type,
51. Flier type—
52. Traversing yarn-guide—
53. Geared,
54. Traversing,
55. Drag.

118.—**SPINNING**—Continued.
56. **Spinning elements**—
57. Fliers—
58. Capstan,
59. Rings and travelers—
60. Rotating rings,
61. Travelers,
62. Caps.
63. **Receiving elements**—
64. Yarn-holding,
65. Spindle-retaining,
66. Whirl-driven.
67. **Rails**—
68. Ring.
69. **Processes.**

119.—**ANIMAL HUSBANDRY.***
1. **Miscellaneous.**
Special culture—
Aquatic—
2. Crustacean,
3. Fish,
4. Mollusk,
5. Aquariums,
6. Silkworm.
30. **Brooders and incubators.**
31. **Brooders**—
32. Central heater,
34. Lateral heater,
33. Fireless.
35. **Incubators**—
36. Contact,
37. Electrical,
39. Hot air—
40. Lateral heater,
41. Hot water—
42. Lateral heater,
38. Fireless,
43. Trays—
44. Egg-turners,
45. **Nests and nest appliances**—
46. Medicated nest-eggs,
Trap-nests—
47. Combined,
48. Egg,
49. Fowl—
50. Fowl-released.
7. **Stock-cars**—
8. Convertible,
14. Vestibule,
9. Decks,
10. Feeding and watering devices,
11. Partitions—
12. Poultry,
13. Safeguards.
15. **Confining and housing devices**—
15.5. Course,
21. Fowl—
22. Appliances,
23. Bird-houses,
24. Perches—
25. Antivermin,
26. Bird,
16. Barns and sheds,
17. Cages—
18. Food and water holders,
19. Coops and kennels,
20. Pens and racks,
27. Stalls—
28. Floors.
51. **Feeding devices**—
70. Poultry-exercising,
71. Suckling appliances,
52. Hoppers and troughs—
53. Adjustable supply,
54. Animal-controlled supply—
55. Platform,
56. Charge-delivering,
57. Movable trough-controlled supply,
58. Racks and troughs—
59. Animal-excluding,
60. Racks,
61. Troughs—
62. Animal-opened,
63. Animal-excluding,
64. Anticribbing,
65. Feed-bags—
66. Halter-supported,
67. Harness-supported,
68. Pole-supported,
69. Standard-supported.
72. **Watering devices**—
73. Temperature-controlling.
74. Fountains and troughs—
75. Animal-controlled supply—
76. Platform,
77. Barometric,

* See Definitions of Revised Classes.

119.—**ANIMAL HUSBANDRY**—Con.
- **Watering devices**—Continued.
  - Fountains and troughs—Con.
    - 78. Float-controlled supply—
      - 79. Oscillating valve,
      - 80. Reciprocating valve,
    - 81. Movable trough-controlled supply.
- 83. **Grooming devices**—
  - 85. Combined,
  - 84. Pneumatic,
  - 86. Currycombs—
    - 87. Dust and vermin trap,
    - 88. Self-cleaning,
    - 89. Curved and reticulated wire,
    - 90. Plain bar,
    - 91. Rotary,
    - 92. Serrated bar,
    - 93. Spike-toothed,
    - 94. Handles.
- 29. **Breaking and training devices.**
- 96. **Restraining devices**—
  - 97. Poultry,
  - 98. Stocks—
    - 99. Combined crates and neck-stocks,
    - 100. Combined slings and hopples,
  - 101. Harness,
    - 102. Slings,
    - 103. Tables and trays,
  - 104. Blinders,
  - 105. Cow-tail holders,
  - 106. Collars,
  - 107. Drags and weights,
  - 108. Hampering-pads,
  - 109. Hitching—
    - 110. Releasers—
      - 111. With lead-line,
      - 112. With sprayer,
      - 114. Halter-snap,
      - 115. Reciprocating bar,
      - 116. Rotatable shaft,
    - 117. Rotary arm,
    - 118. Ties—
      - 119. Movable,
    - 120. Traveler,
    - 121. Picket-stakes,
    - 122. Posts—
      - 124. Automatic take-up,
      - 125. Disappearing,
      - 123. Attachments,
  - 126. Hopples—
    - 127. Fetter-bars,
    - 128. Shackles,
  - 129. Mouth-guards—
    - 134. Weaning-bits,
    - 130. Muzzles—
      - 131. Baffles—
        - 132. Nostril-attached,
        - 133. Cage form,
      - 135. Nose rings and clips,
      - 136. Pokes—
        - 137. Bar and belt,
        - 138. Bar and bow—
          - 139. Jointed bow,
          - 140. Pivoted bar,
        - 141. Bar and halter,
        - 142. Face-guards,
  - 143. Shields—
    - 144. Horn,
    - 145. Stallion,
    - 146. Udder,
  - 147. Stanchions—
    - 148. Multiple,
    - 149. Rotatable—
      - 150. Step-lock,
  - 151. Catching and holding tools—
    - 152. Crooks,
    - 153. Loops,
    - 154. Tongs.
  - 155. **Stock-sorters.**
- 82. **Gangways.**
- 95. **Manure-pouches.**
- 156. **Antivermin treatment**—
  - 157. Daubing and rubbing,
  - 158. Dipping and washing,
  - 159. Dusting and spraying,
  - 160. Fumigating.

120.—**STATIONERY.***
- 1. **Combination devices**—
  - 2. Blotters and rulers,
  - 3. Inkstands and calendars,
  - 4. Inkstands and pen-racks—
    - 5. Self-opening,
  - 6. Moisteners and sealers,
  - 7. Pencil-sharpeners and erasers.
- 8. **Miscellaneous.**
- 23. **Scholars' companions.**

120.—**STATIONERY**—Continued.
- 9. **Pen and pencil cases**—
  - 16. Magic,
  - 10. Compound—
    - 11. Automatic,
    - 12. Screw and slide,
  - 21. Clutch—
    - 22. Automatic,
  - 20. Automatic catch,
  - 12. Chalk-holders,
  - 14. Polypointed,
  - 15. Sharpening,
    - 17. Step by step,
    - 18. Screw,
    - 19. Slide.
- 24. **Blotters**—
  - 25. Hand-attached,
  - 26. Rotary,
  - 27. Supports.
- 28. **Copy-holders**—
  - 29. Movable copy—
    - 30. Roller-feed—
      - 31. Positive grip,
      - 32. Step-by-step movement,
    - 33. Movable marker—
      - 34. Step-by-step movement.
- 35. **Envelop-openers.**
- 35.5. **Stamp-scarifiers.**
- 36. **Erasers**—
  - 37. Combination,
  - 38. Pencil attachments,
  - 39. Knife,
  - 40. Rubber.
- 41. **Erasing-shields.**
- 42. **Fountain-pens**—
  - 43. Special use—
    - 43.5. Perforating,
  - 44. Stylographic—
    - 45. Spring-actuated spindle,
  - 46. Force-feed and filler—
    - 47. Piston,
    - 48. Valved,
  - 49. Retractile pen-section,
  - 50. Feeders—
    - 51. Modified nib,
    - 52. Modified pen-section.
- 53. **Hand and arm rests**—
  - 54. Traveling,
  - 55. Book-supported,
  - 56. Adjustable height.
- 57. **Inkstands**—
  - 58. Desk-attached,
  - 59. Barometer,
  - 60. Fountain—
    - 61. Automatic,
    - 62. Compressible ink-bag,
    - 63. Flexible diaphragm—
      - 64. Automatic,
    - 65. Gravity-feed,
    - 66. Movable dip-cup,
    - 68. Self opening and closing,
    - 67. Self-closing,
    - 69. Supplementary reservoir,
    - 70. Tilting reservoir,
    - 71. Dip-gages,
    - 72. Opening and closing devices,
    - 73. Supports.
- 74. **Postal cards or packets.**
- 82. **Paper-weights.**
- 83. **Pencils**—
  - 84. Attachments.
- **Pencil-sharpeners**—
  - Implements—
    - 85. Compound—
      - 86. Reciprocatory movement,
      - 87. Point-protectors,
      - 88. Knife-gages,
      - 89. Reciprocatory movement—
        - 90. Shaving,
      - 91. Revolving pencil,
      - 92. Rotary movement—
        - 93. Shaving,
    - 94. Machines—
      - 95. Rotating cutter and pencil,
      - 96. Rotating cutter.
- 97. **Pen-extractors.**
- 98. **Penholders**—
  - 100. Angular adjustment,
  - 101. Releasing,
  - 102. Grips—
    - 103. Detachable,
  - 104. Ink-guards,
  - 106. Slant devices—
    - 107. Supporting.
- 108. **Pen racks and cleaners.**
- 109. **Pens**—
  - 109.5. Drawing,
  - 110. Ruling,
  - 111. Shading,
  - 112. Stylus,
  - 113. Reservoir attachments—
    - 114. Nib-attached—
      - 115. Integral.
- 116. **Sealing-wax appliers.**

121.—**MOTORS—EXPANSIBLE-CHAMBER TYPE.***
- 1. **Miscellaneous.**
- 2. **Bell-ringers.**
- 3. **Tool**—
  - 4. Rotating, feeding, and cleansing,
  - 5. Rotating and feeding,
  - 6. Rotating and cleansing,
  - 7. Rotating,
  - 8. Feeding and cleansing,
  - 9. Feeding,
  - 10. Cleansing,
  - 11. Automatic starting, or stopping,
  - 12. Variable stroke,
  - 13. Percussive—
    - 14. Jolting-machines,
    - 15. Multiple piston, cylinder, or expansion,
  - 16. Fluid distribution—
    - 17. Valveless,
    - 18. Semivalveless—
      - 19. Compression-actuated admission-valve.
      - 20. Independently-power-actuated valve,
      - 21. Manually-actuated valve,
      - 22. Fluid-actuated angularly-moving valve,
      - 23. Pilot-valved
      - 24. Relieved-pressure-actuated valve,
      - 25. Piston-controlled valve—
        - 26. Returned by compression,
        - 27. Returned by constant pressure,
        - 28. For both movements,
      - 29. Compression-actuated valve,
      - 30. Mechanically-actuated valve,
  - 31. Cylinders and pistons,
  - 32. Tool-retainers,
  - 33. For rotary tools—
    - 34. Rotary cylinder or piston,
  - 35. Inlet or exhaust control,
  - 36. Handles or handle-fastenings.
- 37. **Engine-starter type.**
- 38. **Servo-motor type**—
  - 39. Steam-engine type,
  - 40. With locks,
  - 41. With follow-up devices—
    - 42. Speed-controlled,
  - 43. Speed-controlled,
  - 44. For closures,
  - 45. For carriages,
  - 46. For hoists.
- 47. **Stop devices.**
- 48. **Collapsible wall.**
- 49. **Alternating-piston type.**
- 50. **Moving cylinder**—
  - 51. Multiple expansion,
  - 52. Transversely-reciprocating cylinder and piston,
  - 53. Rotating—
    - 54. Non-rotating piston—
      - 55. Swinging abutment,
      - 56. Moving vane,
      - 57. Sliding vane or abutment,
    - 58. Reciprocating piston—
      - 59. Radiating cylinder—
        - 60. Outside thrust member—
          - 61 Cam,
        - 62. Parallel or coaxial cylinder and rotation axes,
    - 63. Oscillating—
      - 64. Rocker-type valve—
        - 65. End rocker.
- 66. **Non-reciprocating piston**—
  - 67. Rotary—
    - 68. Planetary movement—
      - 69. Inclined axis,
    - 70. Multiple,
    - 71. Rotary abutment—
      - 72. Multiple expansion,
    - 73. Sliding abutment—
      - 74. Multiple expansion,
      - 75. Radially moving—
        - 76. Rotary-cam actuated,
        - 77. Piston-actuated,
      - 78. Swinging abutment—
        - 79. Multiple expansion,
        - 80. Spring-actuated,
        - 81. Fluid-actuated,
      - 82. Sliding vane—
        - 83. Multiple expansion,
        - 84. Eccentrically-walled chamber—
          - 85. Cam-actuated,
          - 86. Spring-actuated,

* See Definitions of Revised Classes.

121.—MOTORS—EXPANSIBLE-CHAMBER TYPE—Continued.
Non-reciprocating piston—Continued.
Rotary—Continued.
Sliding vane—Continued.
Eccentrically-walled chamber—Continued.
87. Fluid-actuated,
88. Axially centered,
89. Axially moving,
90. Cam-actuated—
91. Interposed lever,
92. Fluid-actuated,
93. Swinging vane—
94. Multiple expansion,
95. Spring-actuated,
96. Fluid-actuated,
97. Oscillating—
98. Multiple,
99. Winged.
100. Multiple piston.
101. Valveless.
102. Multiple expansion—
103. Semicompound type—
104. Automatic,
105. Convertible,
106. Duplex—
107. Cut-off or reversing,
108. With fluid-actuated valve,
109. Differential piston,
110. Concentric cylinders,
111. Cut-off or reversing,
112. Single-acting,
113. Single valve.
114. Duplex—
115. With fluid-actuated valve,
116. Combination-gear.
117. With special transmission—
118. Compensating,
119. Piston parallel or coaxial with shaft,
120. Pistons symmetrical with transverse shaft—
121. Single valve.
122. Pistons longitudinally arranged.
123. Valved piston.
124. Independent admission and exhaust—
125. Uniflow type,
126. Fluid-actuated valve,
127. Cam-gear,
128. Trip-gear.
129. Valved cylinder.
130. Fluid distribution—
131. Compound-motion valve,
132. Cushioning or compression,
133. By-passing,
134. Pressure, condensate, or vacuum-relief,
135. Exhaust—
136. Auxiliary,
137. Drifting on auxiliary fluid,
138. Port-reversing—
139. Shifting distributing-valve,
140. Shifting distributing-valve seat,
141. Selecting-valve,
142. Admission—
143. Throttling,
144. Independent cut-off—
145. Reciprocating distributing-valve—
146. Slide or piston cut-off valve.
Special distributing-valve actuation—
147. Independently power-actuated,
148. Electrically actuated,
149. Pulsator-actuated,
150. Fluid-actuated—
151. With modifiers,
152. Started—
153. Transversely starting,
154. Pilot-controlled throwing,
155. Angularly moving,
156. Relieved pressure,
157. Pilot-controlled—
158. Fluid-actuated pilot,
159. Angularly-moving pilot,
160. Transmission-actuated—
161. Fluid-compensated gear,
162. Power adjustment,
163. Combination-gear,
164. Piston, rod, or cross-head actuated gear,
165. Engine-shaft-actuated gear—
166. Cam-gear—
167. Rotary cam,
168. Trip-gear,
169. Marshall-type gear,
170. Link-gear,

121.—MOTORS—EXPANSIBLE-CHAMBER TYPE—Continued.
Special distributing-valve actuation—Continued.
Transmission-actuated—Con.
Engine-shaft-actuated gear—Continued.
171. With shifting eccentric pin—
172. Automatic shift,
173. With shifting eccentric sheave—
174. Automatic shift—
175. With modifiers,
176. Sheave turned,
177. Sheave slid,
178. Sheave swung,
179. Rotary valve,
180. Oscillatory valve.
181. With jacket or lagging.
182. With balanced valve—
183. Slide-valve type—
184. Expansible.
185. With puppet-type valve.
186. With oscillatory valve.
187. With rotary valve,
188. With sliding reciprocating valve—
189. Auxiliary port or grid valve,
190. Through-port,
191. Internal supply or discharge.
192. Piston type—
193. Cylindrical,
194. Frames or casings.

122.—LIQUID HEATERS AND VAPORIZERS.*
1. Plants—
2. Garbage,
3. Motor-vehicle.
4. Miscellaneous.
5. Gas-producer.
5.5. Air-injected.
6. Industrial—
6.5. Port,
6.6. Twyers—
6.7. Forge,
7. Waste heat,
8. Water fire-box—
9. Water-tube type.
10. For fluid-fuel burner.
11. Rotary.
12. Rotatably supported.
13. Stand-boiler—
Fire-tube and water-tube—
16. Fluid fuel,
Fire-tube—
17. Fluid fuel,
Water-tube—
Below boiler—
18. Fluid fuel,
Casing—
19. Fluid fuel,
14. Fluid fuel,
15. Solid fuel.
20. Subsidiary.
29. Annular fire-box.
30. Magazine.
Indirectly heated—
Separate fluid—
31. Injected,
32. Surface—
33. Furnace,
34. Separator.
35. Accumulator.
36. Auxiliary steam-heater.
37. Compartment—
Auxiliary—
38. Draft-regulator.
39. Film.
40. Flasher—
41. Fluid fuel.
42. Fire and water-tube—
43. Fluid fuel.
44. Fire-tube—
49. Horizontal and vertical,
Horizontal or inclined—
Water fire-box—
50. Flue,
51. Horizontal—
52. Plural—
53. Water-tube,
Central fire-box—
54. Double outlet,
55. Cylinder,
Depending fire-tube—
56. Rear of bridge-wall,
Double water fire-box—
57. Alternate smoke return,

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
Fire-tube—Continued.
Horizontal—Continued.
58. Drop water fire-box—
59. Circulation-conduit,
Double—
60. Alternate smoke return,
61. Drop water-baffle,
62. Front and rear water-baffle,
63. Front water-baffle,
64. Interposed combustion-chamber,
65. Rear water-baffle,
66. Water coking-chamber,
Water-grate—
67. Intermediate draft,
68. Water-tube—
Feed-heater—
69. Check-valved,
70. Feeding air,
71. Solid baffle,
72. Projecting into fire-box—
73. Drop water fire-box,
Return and reverse—
74. Drop water fire-box,
75. Return fire-tube—
76. Drop water fire-box—
77. Internal water-tube,
Water fire-box—
78. Flue,
79. Subjacent water-arch,
80. Subjacent flue,
81. Subjacent transverse fire-tube.
Superjacent feed-heater—
82. In communication,
83. Transverse diaphragm,
Two diameters—
84. Great diameter over fire-box,
85. Small diameter over fire-box—
86. Water fire-box,
87. U-coupling,
88. Upper drum,
Water-arch—
89. Rear of fire-tube,
90. Water fire-box—
Fire-box water-heater—
91. Trapped circuit,
92. Magazine,
93. Offset—
94. Water-tube type,
Plural—
95. Common combustion-chamber.
96. Superposed,
Water-grate—
97. Downdraft,
98. Updraft,
Water-tube—
99. Straddle,
Water-tube type—
100. Interposed flue,
101. Water smoke-box,
Water-tube—
Horizontal—
102. Over bridge-wall,
103. Rear of fire-tube,
Rearwardly declined—
104. Over bridge-wall,
Rearwardly inclined—
105. Over bridge-wall,
106. Water-wall—
107. Drop water fire-box,
108. Subjacent water-tube,
109. Inclined,
Transverse—
110. Horizontal boiler,
111. Vertical boiler—
112. Water fire-box,
113. Water-tube,
114. Vertical—
116. Central fire-dome,
117. Central magazine,
Circulation-tube—
118. Internal,
119. Cylinder,
120. Offset fire-box,
121. Return fire-tube—
122. Water fire-box,
123. Separate compartment,
124. Side magazine,
125. Top water-chamber,
126. Water fire-box—
127. Annular,
128. Central magazine,
Water-grate—
129. Downdraft,

* See Definitions of Revised Classes.

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
- Fire-tube—Continued.
  - Vertical—Continued.
    - 130. Water-tube—
      - 131. Internal,
      - 132. Radial loop,
      - 133. Spur,
    - 115. Fluid fuel,
    - 134. Volute,
    - 46. Magazine,
    - Flue—
      - 47. Horizontal,
      - 48. Vertical,
    - 45. Fluid fuel.
  - 135. Flue—
    - 136. Horizontal—
      - 137. Plural—
        - 138. Water-tube,
      - 139. Drop water fire-box,
      - 140. Internal water-tube—
        - Longitudinal—
          - 141. Drop water fire-box,
        - 142. Return fire-tube,
        - 143. Spur,
        - 144. Subjacent fire-box,
        - 145. Transverse—
          - 146. Drop water fire-box,
          - 147. Return fire-tube,
        - 148. Water fire-box,
      - 149. Return fire-tube—
        - 150. Rear water-tube,
        - Water smoke-box—
          - 151. Separate,
      - 152. Water-grate in flue,
      - 153. Water-tube—
        - 154. Over bridge-wall,
    - 155. Vertical—
      - 157. Central magazine—
        - 158. Water-jacket,
        - Circulation-tube—
          - 159. Internal,
        - 160. Concentric shell—
          - 161. Fluid fuel,
          - 162. Central magazine,
        - 163. Exterior drum,
        - 165. Internal water-heater,
        - 166. Internal water-tube—
          - 168. Central magazine,
          - 169. Coil—
            - 170. Header,
          - 171. Contracted inlet,
          - 172. Header,
          - 173. Horizontal spur,
          - 174. Internal fire-tube,
          - 175. Offset water fire-box,
          - 176. Transverse—
            - 177. Fluid fuel,
          - 178. Vertical alined fire-tube—
            - 179. Fluid fuel,
          - 180. Spur water-tube,
          - 181. Vertical spur,
          - 167. Fluid fuel,
        - 182. Return fire-tube,
        - Spiral water-conduit—
          - 183. Fluid fuel,
        - Standpipe—
          - Water-tube—
            - 184. Annular fire-box,
            - 185. Loop,
            - 186. Spur,
        - 187. Transverse fire-tube,
        - 164. Insulated outlet-flue,
        - 156. Fluid fuel.
  - Horizontal cylinder—
    - 188. Drop water-baffle,
    - Offset subjacent fire-box—
      - 189. Water-roof,
      - 190. Water-tube,
    - Subjacent fire-tube—
      - 191. Beyond bridge-wall,
      - 192. Water bridge-wall,
      - 193. Water fire-box—
        - 194. Water-tube type,
      - 195. Water-tube—
        - Feed-heater—
          - 196. Check-valved,
        - 197. Lateral longitudinal,
        - 198. Lateral vertical—
          - 199. Fire-box,
        - 200. Over fuel-grate,
        - 201. Subjacent internal fire-tube,
        - 202. Trapped circuit,
        - Water-grate—
          - 203. Downdraft,
          - 204. Intermediate draft,
          - 205. Multiple series,
          - 206. Solid and water bar,
          - 207. Updraft.
  - Plate—
    - Zigzag conduit—
      - 208. Fluid fuel.

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
- 209. Sectional—
  - 213. Plural fire-box,
  - Horizontal sections—
    - 214. Superimposed—
      - 215. Central connection—
        - 216. Fluid fuel,
        - 217. Water fire-box,
      - 218. Water fire-box—
        - 219. Central magazine,
        - Water-tube—
          - Internal fire-tube—
            - 220. Water fire-box,
  - Vertical sections—
    - 221. Annularly posited—
      - 222. Central magazine,
    - 223. Longitudinally posited—
      - 224. Casing,
    - 225. Transversely posited—
      - 226. Casing—
        - 227. Divided section,
      - 228. Divided section,
      - 229. Water-grate,
    - 230. Two-section,
  - 212. Magazine,
  - 211. Fluid or solid fuel,
  - 210. Fluid fuel,
  - 232. Water-grate,
  - 231. Accessories.
- Tank—
  - 233. Horizontal,
  - 234. Vertical.
- 235. Water tube—
  - 238. Offset fire-box,
  - 239. Superimposed fire-box,
  - 240. Plural fire-box,
  - 241. Fire-box in drum,
  - 242. Capillary—
    - 243. Fluid fuel,
  - Coil or loop—
    - 244. Central standpipe—
      - 245. Fluid fuel,
      - 246. Annular fire-box,
    - 247. Coil—
      - Horizontal—
        - 248. Fluid fuel,
      - 249. Vertical—
        - 250. Fluid fuel,
        - 251. Central magazine,
        - 252. Water fire-box,
  - 253. Cross—
    - 254. Over bridge-wall,
    - Over fire-box—
      - Longitudinal—
        - Header—
          - 255. Drum,
        - Transverse—
          - Header—
            - 256. Drum,
      - Transverse—
        - Header—
          - 257. Drum,
  - 258. Downflow,
  - 259. Drum type,
  - 260. Flat—
    - 261. Volute,
  - 262. Horizontal—
    - 263. Over bridge-wall,
    - 264. Over fire-box,
  - 265. Inclined,
  - 266. Internal fire-tube—
    - 267. Horizontal,
    - 268. Inclined,
    - 269. Plural fire-tube,
    - 270. Straddle,
    - 271. Vertical—
      - 272. Central magazine,
  - 273. Longitudinal upper drum—
    - 274. Fluid fuel,
  - 275. Loop—
    - 276. Fire-box inclosing,
    - 277. Over bridge-wall,
    - Over fire-box—
      - 278. Cross,
      - 279. Horizontal,
      - Rear of bridge-wall—
        - 280. Bridge-wall header,
      - 281. Standpipe,
      - 282. Vertical—
        - 283. Fluid fuel,
    - Over bridge-wall—
      - 284. Headers at right angles,
      - 285. Transverse water-baffle,
      - Water-grate
        - 286. Downdraft,
        - 287. Intermediate draft,
    - Over fire-box
      - 288. Headers at right angles,
      - Water-grate
        - 289. Updraft,

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
- Water tube—Continued.
  - Rearwardly declined—
    - Over bridge-wall—
      - 290. Front and rear header—
        - 291. Horizontal longitudinal drum—
          - 292. Fire-box tube,
          - 293. Longitudinal water-baffle,
        - 294. Water-wall,
        - 295. Internal water-tube,
        - 296. Longitudinal declined drum,
        - 297. Transverse drum,
      - Over fire-box—
        - Front and rear header—
          - 298. Horizontal longitudinal drum,
        - 299. Transverse drum,
        - 300. Tubes beyond side wall
      - Plural upper transverse drum—
        - 301. Plural lower transverse drum,
        - 302. Single lower transverse drum,
    - Rearwardly inclined—
      - Over fire-box—
        - Front and rear header—
          - 303. Transverse drum,
      - Separate banks—
        - 304. Opposite fire-boxes,
      - 305. Spur—
        - 306. Bridge-wall header,
        - 307. Central standpipe—
          - 308. Fluid fuel,
          - 309. Annular fire-box,
          - 310. Central magazine,
        - 311. Cross,
        - 312. Horizontal longitudinal drum,
        - 313. Over bridge-wall,
        - Over fire-box—
          - 314. Central header,
          - 315. Declined,
          - 316. Horizontal,
        - 317. Straddle,
        - 318. Vertical—
          - 319. Fluid fuel,
          - 320. Central magazine,
        - 321. Standpipe—
          - 322. Fluid fuel,
          - 323. Annular fire-box,
        - 324. Straddle—
          - Plural upper drum—
            - 325. Plural lower drum—
              - 326. Cross,
          - Single upper drum—
            - 327. Plural lower drum—
              - 328. Fluid fuel,
              - 329. Cross,
              - 330. Plural fire-box,
      - 331. Transverse horizontal drum,
      - 332. Vertical—
        - 333. Fluid fuel,
        - 334. Side magazine,
        - 335. Annular fire-box,
        - 336. Offset fire-box—
          - 337. Elevated,
        - Annular lower drum—
          - 338. Annular upper drum—
            - 339. Central magazine,
            - 340. Tubes over fire-box,
            - 341. Fire-tube upper drum,
            - 342. Spur-tube upper drum,
            - 343. Upper drum—
              - 344. Central magazine,
        - 345. Beyond bridge-wall—
          - 346. Gas return,
            - Longitudinal upper drum—
              - 347. Longitudinal lower drum,
            - Internal fire-tube—
              - 348. Fluid fuel,
              - 349. Over fire-box—
                - 350. Gas return,
                - Plural upper longitudinal drum—
                  - 351. Plural lower longitudinal drum,
                - Plural upper transverse drum—
                  - Plural lower transverse drum—
                    - 352. Offset fire-box,
      - 353. Water-grate—
        - 354. Downdraft,
      - 355. Zigzag—
        - 356. Fluid fuel,

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
- Water tube—Continued.
  - Zigzag—Continued.
    - Over bridge-wall—
      - 357. Longitudinal drum,
      - 358. Transverse drum,
    - 359. Over fire-box,
  - 237. Magazine,
  - 236. Fluid fuel,
  - Headers—
    - 360. Closures and couplings—
      - 361. Cleaning,
      - 362. Concentric tube,
      - 363. Drum,
      - 364. Tube-closures,
    - 365. Drums and couplings.
  - 366. **Wick.**
  - 367. **Heat-transmitter.**
  - 368. **Water fire-box.**
  - 369. Mud-ring,
  - 370. Plural.
  - 371. **Water-grate—**
    - Plural fire-box—
      - Superimposed—
        - Water-grate—
          - 372. Updraft,
    - 373. Cage,
    - 374. Grate structure—
      - 375. Solid and water bar,
    - 376. Progressive feed,
    - Water fire-box—
      - Solid and water bar—
        - 377. Updraft,
        - 378. Updraft.
- 21. **Chemical.**
- 22. **Fluid and solid fuel.**
- 23. **Fluid fuel—**
  - 24. Explosion,
  - Plural burner—
    - 25. Superimposed.
  - 26. **Friction-generator.**
  - **Non-combustible heater—**
    - 27. Surface,
    - 28. Water in contact.
  - 379. **Cleaning—**
    - 380. Agitating-circulator,
    - **Blow-off—**
      - 381. Bottom and surface,
      - 382. Bottom—
        - 383. Internal conduit—
          - 384. Ejector,
          - 385. Mud-ring,
          - 386. Pan,
          - 387. Scraper,
          - 388. Valved,
        - 389. Surface exit,
      - 390. Fluid-jet—
        - 391. Horizontal-fire-tube boiler,
        - 392. Water-tube boiler,
      - 393. **Mud-drum,**
      - 394. **Pans,**
      - 395. **Sand-blast,**
      - 396. **Systems,**
      - 397. Trapped circuit—
        - 398. Feeding water,
        - 399. Surface and bottom exit,
        - 400. Surface exit—
          - 401. Chemical-feeder,
          - 402. Circulating-pump,
          - 403. Feed-heater,
          - 404. Steam-injector,
        - 405. Washout-nozzle.
  - 406. **Circulation—**
    - 407. Injector,
    - 408. Internal conduit—
      - 409. Horizontal-flue boiler—
        - 410. Return fire-tube,
      - Mechanical—
        - 411. Internal.
  - 412. **Feed-heaters—**
    - 413. Ash-pan,
    - 414. Boiler-circuit—
      - Feed injected,
      - Circulation—
        - Surface exit—
          - Mechanical pump—
            - 415. Feed injected,
          - 417. Drip-plate in boiler,
      - Fire-engine boiler—
        - Auxiliary—
          - 418. Attached,
          - 419. Detachable,
        - 420. Furnace-gases—
          - 421. Off-take flue,
          - 422. Furnace-gases and steam,
        - 423. Horizontal-fire-tube boiler—
          - 424. Smoke-box—
            - 425. Exhaust-pipe,
            - 426. Furnace-gases and steam,
            - 427. Water-tube,
          - 428. Smoke-chamber,
        - 429. Internal conduit—
          - Automatic sediment-valve,

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
- Feed-heaters—Continued.
  - Internal conduit—Continued.
    - 430. Blow-off delivery,
    - 431. Filter in boiler,
    - 432. Furnace-gases,
    - 433. Trap outside boiler,
    - 434. Locomotive-tender,
    - 435. Pan in steam-space—
      - 436. Spray,
    - 437. Safety-valve,
    - 438. Spray to steam-space,
    - 439. Stack,
    - 441. Steam—
      - 442. Injected—
        - Superposed—
          - 443. Open to steam space,
      - 444. Water-tube boiler.
  - **Regulation—**
    - Fuel and water—
      - 446. Fluid fuel—
        - 447. Cut-off,
      - Automatic control—
        - 448. Fluid fuel,
        - 449. Solid fuel,
      - 450. Suspended boiler.
  - 451. **Feeders—**
    - Automatic—
      - 451.1. Thermally controlled—
      - 451.2. Pressure-operated valve,
    - 452. Boiler-pressure,
    - Gravity—
      - 456. Automatic—
        - 457. Heater,
      - 458. Heater.
  - 459. **Steam treatment—**
    - 460. Boilers with superheaters,
    - Fire-tube boiler—
      - Horizontal—
        - 461. Superheater—
          - In fire-tube—
            - 462. From smoke-box,
          - Interior steam-space—
            - 463. Internal fire-tube,
          - Smoke-box—
            - 464. Fire-tube,
            - 465. Steam-tube,
        - 466. Superheater and feed-heater,
      - Vertical—
        - 467. Superheater,
    - Flue-boiler—
      - Vertical—
        - Internal water-tube—
          - 468. Superheater,
      - Horizontal boiler—
        - Superheater—
          - 469. Rear of fire-box,
          - 470. Waste-heat flue,
    - Water-tube boiler—
      - Declined over bridge-wall—
        - Front and rear header—
          - Declined drum—
            - 471. Superheater,
          - Longitudinal-drum—
            - 472. Superheater,
        - Longitudinal drum—
          - 473. Superheater,
        - Over bridge-wall—
          - 474. Superheater,
        - Standpipe—
          - Spur-tube—
            - 475. Superheater,
        - Transverse drum—
          - 478. Superheater,
        - 477. Superheater and feed-heater,
        - 476. Superheater,
      - Superheater—
        - 479. Automatic heat regulation,
        - 480. Damper-controlled,
        - 481. Fire-box,
        - 482. Fire-tube in steam-space,
        - 483. Indirectly heated,
        - 484. Separate charges,
        - 485. Separate furnace,
        - 486. Steam-dome,
        - 487. Water injected.
  - **Separators—**
    - 488. Boiler circulation,
    - 489. Boiler return,
    - 490. For tilting boilers,
    - 491. Interior of boiler.
    - 492. Steam-dome.
  - 493. **Braces and stays.**
  - 494. **Casings.**
  - 495. **Crown-sheet protecting.**
  - 496. **Crown-sheets and stays.**
  - 497. **Fronts—**
    - 498. Doors,
    - 499. Mouths—
      - 500. Water fire-box.
  - 501. **Fluid-displacer—**
    - 502. Fluid fuel.

122.—LIQUID HEATERS AND VAPORIZERS—Continued.
- 503. **Fuel-baffles.**
- 504. **Safety devices—**
  - 504.1. Fusible control,
  - 504.2. Alarms or indicators,
  - Fire-extinguishers—
    - 504.3. Fusible control,
    - 505. Float-controlled,
    - 506. Pressure-controlled,
  - 507. Self-closing valve.
- 508. **Steam-domes.**
- 509. **Submerged steam-chamber.**
- 510. **Supports.**
- 511. **Tubes and connections.**
- 512. **Tube-sheets.**

123.—INTERNAL-COMBUSTION ENGINES.*
- 1. **Miscellaneous.**
- 2. **Combined devices—**
  - 3. Generating plants.
- 7. **Hammers.**
- 8. **Rotary—**
  - 11. Alternating pistons,
  - 12. Geared pistons,
  - 13. Rotating abutment,
  - 14. Sliding abutment,
  - 15. Swinging abutment,
  - 16. Sliding piston,
  - 17. Swinging piston.
- 18. **Oscillating piston.**
- 19. **Liquid-piston.**
- 21. **Convertible cycle.**
- 22. **Internal combustion and air.**
- 23. **Solid fuel.**
- 24. **Gunpowder.**
- 25. **Water and hydrocarbon.**
- 26. **Additional air-supply.**
- 27. **Burning by highly-compressed air.**
- **Oil-engines—**
  - Pump-supply to air-inlet—
    - 28. Four-cycle,
    - 29. Two-cycle,
  - 30. Internal vaporizing—
    - 31. Four-cycle,
  - 32. Forced oil supply—
    - 33. Oil-atomizing—
      - 34. External vaporizing—
        - 35. Four-cycle.
- 37. **Multiple explosion.**
- 38. **Atmospheric.**
- 39. **Non-compression.**
- 41. **Reversible.**
- 42. **Oscillating cylinder.**
- 43. **Rotating cylinder—**
  - 44. Radial.
- 45. **Rotary reciprocating piston.**
- 46. **Free piston.**
- 47. **Valved piston.**
- 48. **Adjustable combustion-chamber.**
- 50. **Reciprocating cylinder.**
- 51. **Multiple piston.**
- 52. **Multiple cylinder—**
  - 53. Simultaneous expansion,
  - 54. Cylinders offset,
  - 55. Cylinders radiating,
  - 56. Cylinders opposite,
  - 57. Cylinders tandem,
  - 58. Cylinders parallel,
  - 59. Cylinders longitudinal—
    - 60. Cranks coincident.
  - **Double-acting—**
    - 61. Two-cycle—
      - 62. Combined pump and motor cylinder,
    - 63. Four-cycle.
  - 64. **Six-cycle.**
  - 65. **Two-cycle—**
    - 66. Combined pump and motor cylinder,
    - 67. Divided pump discharge,
    - 68. Pump compression,
    - 69. Separate air and gas pumps,
    - 70. Pump and cylinder adjacent,
    - 71. Pump and cylinder coaxial,
    - 72. Pump and cylinder inclined,
    - Rear compression—
      - 73. Crank-case,
      - 74. Cylinder,
    - 75. **Four-cycle—**
      - 76. Scavenging,
      - 77. Single revolution,
      - 78. Variable clearance,
      - 79. Single puppet-valve,
      - 80. Rotating valve,
      - 81. Oscillating valve,
      - 82. Rotating side shaft,

* See Definitions of Revised Classes.

123.—INTERNAL-COMBUSTION ENGINES—Continued.
Four-cycle—Continued.
83. Rotating transverse shaft,
84. Adjacent supply and exhaust valves,
85. Alined supply and exhaust valves,
86. Opposite supply and exhaust valves,
87. Longitudinal valve and lever,
88. Transverse valve and lever,
89. Transverse valve and bell-crank.
97. **Speed-regulators**—
98. Manually controlled,
99. Combined types—
100. Charge volume and proportion varying,
101. Charge varying and omitting,
102. Electrical,
103. Pneumatic,
104. Supply-pump regulating,
105. Charge-rejecting,
106. Charge-proportion varying—
107. Exhaust-regulating,
Charge-volume varying—
108. Throttling,
109. Supply-valve lift-regulating,
110. Automatic cut-off,
Charge-omitting—
Centrifugal governor—
111. Supply and exhaust valve regulating,
112. Supply-valve regulating,
113. Exhaust-valve regulating,
Inertia-governor—
114. Supply and exhaust valve regulating,
115. Supply-valve regulating,
116. Exhaust-valve regulating,
117. Automatically controlled igniting device,
118. Ignition-omitting.
90. **Valve-operating mechanism**—
91. Four-cycle—
92. Pneumatic,
93. Double-loop cam,
94. Intermittently-operated cam,
95. Intermittently-operated tappet,
76. Two-to-one gearing.
143. **Igniters**—
144. Flame,
145. Incandescent—
146. Valve-controlled,
146.5. Sparkers—
147. Low tension,
148. High tension,
149. Dynamos,
150. Combined adjusting and exhaust-regulating,
151. Combined sparker and valve
152. Combined valve and sparker operating,
169. Plugs,
153. Make and break—
154. Electromagnetic,
155. Pneumatic,
162. Piston-operated,
156. Reciprocating electrode,
157. Rocking-electrode hammer-action,
158. Rocking and rigid electrodes,
159. Rocking and yielding electrodes,
160. Oscillating electrode,
161. Rotary electrode,
163. Stationary-electrode structure,
164. Adjusting mechanism.
192. **Compensating devices.**
197. **Transmission mechanism.**
179. **Starting devices**—
180. Combustible-mixture supply,
187.5. Primers,
183. Gunpowder,
182. Compression-relieving,
185. Mechanical—
186. Spark-delaying,
184. Igniters.
119. **Charge-forming devices**—
123. Governor-controlled,
121. Combined oil and gas,
120. Gas and air mixers,
124. Automatic dilution,
127. Multiple oil-supply,
128. Constant oil-supply,
125. Oil-intercepting,
129. Valve-controlled oil
130. Positively operated,

123.—INTERNAL-COMBUSTION ENGINES—Continued.
Charge-forming devices—Con.
131. Atomizers—
132. Constant level,
133. Oil-evaporating—
134. Submerged air-supply,
135. Extended oil-film,
122. Heating,
136. Oil-feeding—
137. Reciprocating,
138. Rotary,
139. Pumps—
140. Governor-controlled,
126. Movable carrier,
141. Mixing devices,
142. Safety devices.
170. **Cooling**—
171. Air-cooled,
172. Combined packing and cooling
173. Cylinder, jacket, and head construction,
174. Heat-dissipating devices,
175. Liquid-impelling devices,
176. Rod and piston,
177. Valve,
178. Temperature-regulators.
191. **Combustion-chambers.**
193. **Cylinder and piston construction.**
188. **Valves**—
189. Detachable,
190. Rotary.
195. **Frame construction.**
196. Lubricators.
198. **Accessories.**

124.—AIR-GUNS, CATAPULTS, AND TARGETS.*
1. **Catapults**—
2. Rubber spring.
3. **Target-traps**—
4. Magazine,
5. Pivoted throwing-arm—
6. Rotatable.
7. **Bows and cross-bows.**
Guns—
8. Air—
9. Blow,
10. Spring—
11. Magazine,
12. Spring—
13. Magazine,
14. Rubber.
15. **Targets**—
15.5. Aim-recorders,
16. Moving,
17. Flying—
18. Balls.

125.—STONE-WORKING.*
1. **Miscellaneous.**
2. **Dressing**—
3. Rotary cutter—
4. Cutter-support feed,
5. Rotary tools,
6. Pick-action cutter—
7. Cutter-support feed,
8. Arm-supported tool.
9. **Planing.**
10. **Turning**—
11. Grinding-wheel dressing.
12. **Sawing**—
13. Rotary—
14. Saw-support feed,
15. Saw-blades,
16. Reciprocating—
17. Saw-racks,
18. Saw-blades,
19. Oscillating,
20. Disk-cutting,
21. Endless,
22. Saw-teeth.
23. **Splitting, shearing, and punching**—
24. Mica-splitting.
25. **Slate-surfacing.**
26. **Brick-cleaning.**
27. **Millstone-dressing**—
28. Rotary cutter,
29. Pick-action cutter.
30. **Precious-stone working.**
31. **Pulsator-hammers**—
32. Piston-driven.
33. **Hammer**—
34. Piston-driven.

125.—STONE-WORKING—Continued.
35. **Work-supports.**
36. **Tools**—
37. Traction-rotated,
38. Surface-traversing—
39. Diamond,
40. Impact—
41. Bush-hammers and chisels,
42. Millstone-picks,
43. Miners' picks.

126.—STOVES AND FURNACES.*
204. **Foot-warmers**—
205. Bed-heaters,
207. Heated block,
206. Composition fuel.
208. Liquid or gaseous fuel—
209. Combined heater and lantern,
210. Water-heater.
226. **Tool-heaters**—
236. Soldering-iron—
237. Gas-heaters—
238. Tool-controlled valve,
239. Liquid fuel—
240. Combined heater and solder-pot,
241. Lamp,
229. Liquid or gaseous fuel—
231. Gas-burner attachments—
232. Combined lighting and heating,
233. Jet-mixer,
234. Tool-controlled valve,
235. Lamp attachments,
230. Flatiron,
227. Flatiron—
228. Attachments.
284. **Glue-pots.**
281. **Dough-raisers**—
282. Lamp type.
272. **Liquid-sterilizers.**
343.5. **Melting-furnaces.**
344. **Water-heaters**—
345. Kettle-furnace—
346. Canning,
348. Steam generators and cookers,
349. Tilting,
347. Horizontal combustion chamber,
369. Steaming apparatus,
361. Stand-boilers—
362. Circulation,
363. Supports,
364. Stovepipe—
365. Circulation,
Submerged—
367. Portable,
366. Closed systems pipes,
368. Stationary,
Vessels—
370. Steam or water heated—
371. Closed chamber or coil,
372. Jet,
350. Liquid or gaseous fuel—
351. Automatic,
355. Drip-plate,
357. Hinged or separable,
358. Lamp type,
359. Overflow,
360. Submerged.
Heaters—
246. Dish,
269. Powder,
261. Lunch—
268. Wagon,
265. Liquid or gaseous fuel—
266. Dinner-buckets—
267. Combined bucket and lantern,
262. Combined can and heater—
263. Chemical heater,
271.1. Surface—
271.2. Fluid fuel,
271.3. Solid fuel,
270. Solar—
271. Water,
247. Frictional,
Liquid or gaseous fuel—
Attachments—
248. Drum,
249. Gas-jet—
254. Combined,
252. Article-support—
253. Jet-mixer,
250. Air—
251. Jet-mixer,

* See Definitions of Revised Classes.

126.—STOVES AND FURNACES—Con.
Heaters—Continued.
Liquid or gaseous fuel—Con.
Attachments—Continued.
255. Lamp—
Chimney-heaters—
258. Article-support,
257. Air,
Stands—
260. Article-support,
259. Air-heaters,
256. Article-support.
Trash-burners—
222. Cooking-stoves—
223. Feeding attachments,
225. Heating-stoves,
224. Domestic-refuse burners.
120. Fireplaces—
121. Hot air—
122. Two-room heaters,
123. Stove structure—
124. Magazine,
125. Two-room direct radiation,
126. Stove structure,
132. Water-backs—
133. Liquid or gaseous fuel,
127. Liquid or gaseous fuel—
128. Asbestos fireback—
129. Hot air,
130. Firebacks,—
131. Hot air,
135. Blowers—
136. Stove structure,
137. Cooking and oven attachments,
138. Fronts—
139. Frames,
140. Grate-closure,
141. Heat-reflector,
142. Hoods,
143. Hearths,
134. Air-moistening attachments.
99. Hot-air furnaces—
100. Combined with cooking-stove,
101. Combined with boiler,
110. Compressed air,
111. Double fire-pot,
116. Liquid or gaseous fuel,
117. Preliminary air-heater,
106. Internal air-chamber,
108. Secondary heating-chamber horizontally arranged,
109. Tubular air-heater,
107. Magazine,
104. Horizontal combustion-chamber,
102. Circular radiating-drum,
103. Downdraft,
112. Feeding air,
113. Air-moisteners,
114. Casings,
115. Dust-flue,
105. Hot-air equalizers,
118. Radiating-flanges,
119. Joints.
Stoves—
Cooking—
Ship's galley,
Summer—
Field—
Supporting-frame,
Stove-top supported—
Stove-flue connected,
Detachable fire-pot,
Knockdown or separable,
Combined cooking and heating stove—
Steam or water generators,
Air-heating,
Magazine,
Brick-set,
Reversible,
Double fire-pot—
Cooking and heating,
Magazine—
Portable,
Tables, steam-heated,
Combined base and hot closet,
Liquid or gaseous fuel—
Folding or nesting kit,
Cabinet,
Combined coal and gas,
Valve mechanism, article-controlled,
Water-backs—
Combined burner and water-back,
Gas—
Broilers,
Burner-stands,
Safety attachments,

126.—STOVES AND FURNACES—Con.
Stoves—Continued.
Cooking—Continued.
Liquid or gaseous fuel—Con.
Liquid—
43. Alcohol,
44. Vapor,
45. Wick—
46. Extension-top,
47. Lamp type—
48. Combined top, chimney, and burner,
49. Reservoir-supporting top and burner,
50. Supporting-frame,
51. Drip pan or receptacle,
15. Feeding air,
16. Flue-cleaners,
Elevated ovens—
17. Smoke-pipe heated,
18. Top-plate supported,
19. Ovens—
20. Steam or hot water,
21. Ventilated,
22. Protector-plate,
34. Water-backs—
35. Safety devices,
Water-heating—
31. Flue extension,
12. Hearths—
13. Fire-pot,
14. Broiling attachments,
32. Spittoon attachments,
56. Car—
57. Protective casings,
58. Heating—
59. Camp,
59.5. Orchard,
60. Horizontal body—
61. Hot air,
62. Open front—
63. Hot air,
64. Panel,
65. Sheet metal—
66. Hot air,
79. Smoke and gas returning,
Liquid or gaseous fuel—
84. Combined heating and ventilating,
Gas—
85. Radiator type,
91. Open front—
86. Asbestos fireback—
87. Hot air,
88. Hot air,
89. Hot air,
90. Incandescent fire-grate,
92. Liquid—
93. Flue-connected,
94. Vapor,
95. Wick—
96. Heating and illuminating,
97. Hot air—
67. Magazine,
68. Revertible draft, base-heating,
69. Tubular air-heaters,
72. Internal air-chamber,
70. Central air-tube,
71. Magazine—
73. Revertible draft, base,
74. Revertible draft, base-heating,
75. Downdraft,
76. Feeding air,
77. Feeding steam,
78. Ventilating attachments,
80. Stove-plates,
81. Adjustable pipe-collar,
82. Deflector-plate,
83. Joints.
98. Ovens—
Domestic—
273. Dutch,
274. Portable,
275. Wagon.
276. Fire-pots and linings—
144. Rotary—
Horizontal axis,
149. Vertical axis,
150. Adjustable,
145. Feeding air,
146. Divided,
147. Sectional,
151. Fire-plate,
148. Ash discharge and collecting—
242. Combined stove and ash-pan,
245. Ash-pans—
243. Sifting,
244.

126.—STOVES AND FURNACES—Con.
211. Stove lids and tops—
217. Heating-stove—
218. Cooking attachments,
219. Ornaments and urns,
213. Illuminating,
214. Liquid or gaseous fuel—
215. Elevating support,
216. Extension-top,
212. Centers or cross-pieces,
220. Lids,
221. Stove-mats.
190. Stove doors and windows—
198. Oven-doors, ventilating,
193. Feeding air,
191. Balanced,
Latches—
197. Combined latch and operator,
192. Door-operator,
194. Hinges,
195. Knobs,
199. Thermometer attachments,
200. Transparent panel.
332. Stove-shelves—
336. Fireplace-grate,
337. Oven shelf or rack—
338. Rotary,
339. Sliding—
340. Door-operated,
334. Drop—
335. Door-operated,
341. Stovepipe—
342. Drop,
343. Swinging,
333. Brackets or stands.
285. Dampers—
286. Distance operating devices—
287. Door-operated,
287.5. Fusible release.
288. Fireplace,
289. Stove—
290. Draft,
291. Repair,
292. Stovepipe—
293. Combined damper and ventilator,
295. Lock and indicator,
296. Multiple,
297. Sinuous passage,
294. Cone.
152. Grates—
164. Fireplace—
165. Basket,
163. Feeding air,
153. Adjustable—
154. Vertically,
160. Closures,
166. Fuel cut-off,
161. Cut-off,
Rotary—
181. Horizontal axis,
182. Vertical axis,
Oscillatory—
170. Vertical axis—
171. Dumping section,
172. Sliding section,
176. Rocking bar—
177. Dumping,
178. Duplex,
179. Grate-bar—
180. Removing fuel-support,
174. Reciprocating—
175. Alternate bar,
155. Agitating—
159. Pocket,
158. Dumping,
156. Alternate ends,
157. Alternate bar,
162. Dumping,
167. Grate-bar—
168. Removable fuel-support,
169. Operating mechanism,
173. Raking attachments.
299. Stove-hoods—
300. Stove discharge,
301. Stovepipe discharge—
302. Stove-casing,
303. Top-plate casing.
307. Stovepipes—
312. Ventilation,
310. Elbows—
311. Changeable angle,
309. Seam,
313. Air-moistening attachments.
314. Stovepipe-thimbles—
316. Combined thimble and ventilator,
315. Adjustable flue-collar,
318. Stovepipe anchor or lock,
319. Flue-stoppers,
317. Floor or ceiling plates.

126.—**STOVES AND FURNACES**—Con.
- 280. **Soot-catchers.**
- 201. **Fenders**—
  - 202. Fire screen or guard,
  - 203. Fireplace-hearth.
- 298. **Fire-dogs.**
- 277. **Platforms**—
  - 278. Stove-boards—
    - 279. Ventilating.
- 304. **Stove-legs**—
  - 305. Base-supports,
  - 306. Sheet metal.
- 283. **Fuel-boxes.**

127.—SUGAR AND SALT.
- 1. Bleaching cane-juice.
- 2. Bone-black.
- 6. Cube sugar.
- 7. Defecating.
- 8. Diffusion apparatus.
- 9. Evaporating-pans.
- 10. Glucose.
- 19. Graining and draining.
- 11. Mixers.
- 12. Molds and carriages.
- 14. Refining salt.
- 15. Refining sugar.
- 16. Salt-making.
- 23. Starch.
- 17. Sugar-making.
- 24. Vacuum-coolers.
- 18. Vacuum-pans.

128.—**SURGERY.***
- 1. **Miscellaneous.**
- 2. **Diagnostics**—
  - 3. Specula—
    - 4. Endoscopes—
      - 5. Fenestrated,
      - 6. Illuminating—
        - 7. Cystoscopes and urethroscopes,
        - 8. Gastroscopes,
        - 9. Otoscopes,
    - 10. Pharyngoscopes—
      - 11. Illuminating,
    - 12. Non-pivoted gags—
      - 13. Illuminating,
      - 14. Veterinary,
    - 15. Tongue-depressors—
      - 16. Illuminating,
      - 17. Pivoted—
        - 18. Illuminating,
        - 19. Veterinary,
      - 20. Retractors,
    - 21. Reflectors—
      - 22. Illuminating,
    - 23. Lamps.
- 24. **Kinesitherapy**—
  - 25. Exercising appliances—
    - 26. Hand and finger,
    - 27. Lung—
      - 28. Artificial respiration—
        - 29. Forced inhalation,
        - 30. Produced by vacuum and compression,
      - 31. Obstetric,
    - 32. Vibrators—
      - 33. Couch, chair, or other support,
      - 34. Unbalanced weight—
        - 35. Motor-operated—
          - 36. Electric motor,
          - 37. Fluid-motor,
        - 38. Fluctuating fluid column—
          - 39. Diaphragm-actuated,
          - 40. Pressure-interrupted,
        - 41. Vibrant armature,
        - 42. Reciprocating weight,
        - 43. Vibrant slide,
      - 44. Appliances with applicators having specific movement—
        - 45. Gyratory motor-operated—
          - 46. Electric motor,
          - 47. Fluid-motor,
        - 48. Oscillatory, motor-operated—
          - 49. Electric motor,
          - 50. Fluid-motor,
        - 51. Reciprocatory, motor-operated—
          - 52. Electric motor,
          - 53. Fluid-motor,
        - 54. Percussing—
          - 55. Motor-operated,

128.—**SURGERY**—Continued.
- **Kinesitherapy**—Continued.
  - Appliances with applicators having specific movement—Continued.
    - 56. Rotary,
    - 57. Rolling—
      - 58. Belt-supported,
    - 59. Pinching,
    - 60. Kneading,
    - 61. Manipulating,
    - 62. Frictioning—
      - 63. Belt,
    - 64. Vibrant membrane,
    - 65. Lavative—
      - 66. Fluid-current,
    - 67. Applicators.
  - 68. **Orthopedics**—
    - 69. Osteal adjusters—
      - 70. Couches—
        - 71. Extension,
        - 72. Gap intermediate the ends—
          - 73. Pivoted to pedestal,
          - 74. Pivoted intermediate the ends,
      - 75. Extension appliances,
      - 76. Head,
      - 77. Arm and hand,
      - 78. Body,
      - 79. Genital,
      - 80. Leg and foot—
        - 81. Toe.
  - 82. **Bandaging**—
    - 83. Fracture apparatus—
      - 84. Extension appliances—
        - 85. Splints—
          - 86. Box,
        - 87. Splints—
          - 88. Hinged,
          - 89. Shaped and shapable—
            - 90. Plastic—
              - 91. Plaster of Paris,
            - 92. Bone,
            - 93. Box,
            - 94. Slings,
      - 95. Trusses—
        - 96. Abdominal,
        - 97. Head,
        - 98. Perineal,
        - 99. Supports—
          - 100. Belt wholly flexible—
            - 101. Elastic in part,
          - 102. Belt and frame,
          - 103. Frame hinged,
          - 104. Frame wholly metallic,
          - 105. Frame with auxiliary straps,
        - 106. Pad-carriers—
          - 107. Detachable,
          - 108. Pivoted—
            - 109. Resilient,
            - 110. Clamped,
          - 111. Resilient,
        - 112. Pads—
          - 113. Composition,
          - 114. Medicating,
          - 115. Rigid,
          - 116. Adjustable center,
          - 117. Resilient—
            - 118. Inflated,
            - 119. Spring,
            - 120. Stuffed,
        - 121. Connections—
          - 122. Ball and socket,
          - 126. Hinged,
          - 124. Clamped,
          - 125. Resilient—
            - 126. Spring only,
      - 127. Pessaries—
        - 128. External support,
        - 129. Inflated,
        - 130. Intra-uterine—
          - 131. With cervical cup,
      - 132. Shields—
        - 133. Restraints—
          - 134. Body—
            - 135. Supination,
          - 136. Mouth—
            - 137. Stammering,
          - 138. Sexual,
          - 139. Breath-deflectors,
        - 140. Respirators—
          - 141. Mask—
            - 142. Air-replenishing,
            - 143. Forced circulation,
            - 144. Combined with garment.
          - 145. Fresh air,
          - 146. Oronasal,
          - 147. Oral,
          - 148. Nasal,
          - 149. Chafing—
            - 150. Nipple,

128.—**SURGERY**—Continued.
- **Bandaging**—Continued.
  - Shields—Continued.
    - 151. Ear—
      - 152. Antiphone,
    - 153. Toe and foot,
    - 154. Vaccination,
  - 155. Bandages—
    - 156. Material and making,
    - 157. Member-inclosing—
      - 158. Suspensory—
        - 159. Garment-attached,
        - 160. Compressive,
        - 161. Separable sack,
        - 162. Sacks,
      - 163. Head and face—
        - 164. Chin-supporter,
      - 165. Arm and leg—
        - 166. Ankle,
        - 167. Abdominal,
      - 168. Perineal support,
      - 169. Bands—
        - 170. Roller,
      - 171. Retainers.
- 172. **Medicators**—
  - 173. Atomizers—
    - 174. Aspirating and pressure—
      - 175. Nebulizers,
      - 176. Piston,
    - 177. Aspirating—
      - 178. Nebulizers—
        - 179. Piston,
      - 180. Piston,
      - 181. Steam-current,
    - 182. Pressure—
      - 183. Piston,
    - 184. Gas injectors and ejectors,
  - 185. Inhalers—
    - 186. Vaporizers—
      - 187. Air-impregnators,
      - 188. Anesthetic-feeder,
      - 189. Ammonia,
      - 190. Ozonizer,
      - 191. Regenerator,
      - 192. Heated—
        - 193. Nebulizers,
      - 194. Nebulizers,
      - 195. Oronasal—
        - 196. Mixers,
      - 197. Mixers,
      - 198. Nasal—
        - 199. Oral blowing-tube,
        - 200. Tubular,
        - 201. Oral,
        - 202. Rebreathing-bag combination,
      - 203. Gas-holder combination,
      - 204. Pressure-varying chamber,
      - 205. Oronasal,
      - 206. Nasal—
        - 207. Valved,
      - 208. Oral,
      - 209. Mixers—
        - 210. Valved,
      - 211. Valved,
      - 212. Thermal,
    - 213. Dosing devices—
      - 214. Intravenous,
      - 215. Hypodermic—
        - 216. Injectors—
          - 217. Pellet,
          - 218. Piston—
            - 219. Expansible,
            - 220. Tubular,
          - 221. Cannula,
        - 222. Oral—
          - 223. Veterinary,
      - 224. Syringes—
        - 225. Fountain, air-pressure—
          - 226. Body-pressure,
          - 227. Gravity-pressure—
            - 228. Siphon,
          - 229. Hydrant-pressure,
        - 230. Pump—
          - 231. Bulb—
            - 232. Combined container and bulb,
            - 233. Dropper,
          - 234. Piston—
            - 235. Combined cylinder and reservoir,
            - 236. Screw or rack,
            - 237. Tubular,
            - 238. Wide-mouth barrel,
        - 239. Nozzles—
          - 240. Refluent—
            - 241. Occlusive,
          - 242. Dilating—
            - 243. Expanding bow,
            - 244. Expanding arm,
          - 245. Occlusive—
            - 246. Inflatable,
        - 247. Connections,

*See Definitions of Revised Classes.

128.—SURGERY—Continued.
Medicators—Continued.
248. Douches—
249. Eye,
250. Nasal,
251. Vaginal,
252. Nipples,
253. Vaccination,
254. Thermal—
255. Internal application,
256. Vapor or air application—
257. Air-syringe,
258. Water-bags—
259. Member-inclosing,
260. Depositors and applicators—
261. Ointment-depositors—
262. Extroversive,
263. Tampon-depositors,
264. Pellet-depositors,
265. Powder-depositors—
266. Insufflators,
267. Stem,
268. Cataplasmic,
269. Swab,
270. Tampon,
271. Suppository,
272. Containers or holders for solid, fluid, or gaseous substances,
273. Pumps,
274. Valves.
275. **Receptors—**
276. Aspirators—
277. Air-entraining,
278. Pump,
279. Siphon,
280. Lacteal—
281. Pumps,
282. Cups,
283. Fecal,
284. Catamenial and diaper—
285. Intravaginal,
286. With pouched receptacles,
287. Shields—
288. Garment form,
289. Combined with belt-supports,
290. Pads and pad-holders,
291. Supporters,
292. Obstetric and surgical,
293. Sudatory,
294. Urethrorrhœal—
295. Urinary,
296. Absorbent pads and material,
297. Vacuum and plenum—
298. Body-inclosing,
299. Member-inclosing,
300. Cups—
301. Paired,
302. Vacuum device and scarifier combined.
303. **Instruments—**
304. Curettes and scrapers,
305. Cutters—
306. Castrating,
307. Embryotome,
308. Dehorners,
309. Tonsillotome,
310. Trephine,
311. Urethrotome,
312. Rongeur,
313. Snout,
314. Lancet—
315. Scarificator,
316. Markers,
317. Saw,
318. Shear,
319. Crushers—
320. Ecraseur,
321. Forceps—
322. Artery,
323. Obstetric—
324. Veterinary,
325. Hemostatic devices—
326. Ligators—
327. Tourniquets,
328. Lithotrites and other bladder instruments,
329. Puncturing,
330. Ring, tag, hair, etc., inserters—
331. Ear,
332. Nose,
333. Scarifiers,
334. Suturation or wound-closing devices—
335. Coaptators—
336. Hoof-crack devices,
337. Serre-fines—
338. Inserters,
339. Needles—
340. Inserters,
341. Dilators—
342. Nasal,
343. Tubular,
344. Inflatable,

128.—SURGERY—Continued.
Instruments—Continued.
Dilators—Continued.
345. Expanding arm,
346. Clamps,
347. Trocars,
348. Cannula—
349. Catheter,
350. Drainage,
351. Tracheal,
352. Tractors, obstetric—
353. Hook,
354. Tweezers,
355. Dermatological devices,
356. Probangs,
357. Brush,
358. Bougie,
359. Teething devices—
360. Nipples,
361. Obstetric devices.

129.—PAPER FILES AND BINDERS.*
1. **Miscellaneous.**
7. **Pins and punches.**
3. **Pins and indexes.**
14. **Followers and index partitions.**
15. **Indexes—**
16. Card—
16.1. Selective,
16.5. Systems,
16.7. Filing elements—
16.8. Tabs.
2. **Continuous web.**
34. **Hinged-leaf supports.**
19. **Stubs and flaps.**
20. **Scrap-book and album leaves.**
8. **Pins and transfer-wires—**
9. Sliding base,
10. Swinging,
11. Tilting.
18. **Notched leaves.**
17. **Pins and hinged backs.**
12. **Projecting pins and covers.**
13. **Extensible pins and covers.**
25. **Binding-wires.**
4. **Pins and followers—**
5. Spring—
6. Sliding.
21. **Pins—**
22. Cord-carrying,
23. Guarded,
24. Hinged.
42. **Transverse cords and leaf-attachers.**
41. **Transverse cords.**
Fold-engaging—
38. Bars,
39. Cords,
40. Hooks.
26. **Followers—**
27. Locking—
28. Racks,
29. Lever-operated catch,
30. Spring-operated catch,
31. Tilting release,
32. Spring—
33. Double-acting.
35. **Clamping—**
36. Parallel bars,
37. Spring-backs.
43. **File-boxes.**

130.—THRESHING.
1. **Band-cutters and feeders.**
31. **Cane-strippers.**
2. **Clover-hullers.**
3. **Corn-cribs.**
4. **Corn-husking implements.**
5. **Corn-husking machines.**
Corn-shellers—
6. Breast and cylinder,
7. Disk action,
9. Ear-grasping,
10. Implements,
8. Peripheral action.
12. **Fans and regulators.**
33. **Feeders for shellers and huskers.**
13. **Flax-threshers.**
32. **Fruit and vegetable separators.**
Grain-separators—
17. Gravity,
18. Oat, seed, and garlic,
16. Rotary screens,

130.—THRESHING—Continued.
Grain-separators—Continued.
19. Screens and riddles,
15. Shaking-screens,
Straw-carriers—
21. Endless aprons,
22. Overhung rakes,
23. Reels,
24. Shaking-tables,
25. Vibrators,
26. Walking-rakes,
14. **Granaries and bins.**
20. **Stackers.**
Threshing-machines—
27. Cylinder-machines,
29. Dust-conveyers,
28. Flail-machines.
30. **Vine and seed strippers.**

131.—TOBACCO.
37. **Cigar and cigarette cutters.**
61. **Cigar-banding.**
18. **Cigar-bundling.**
38. **Cigar-cutters, tip—**
62. Combined—
65. With changeable exhibitor.
64. With ignition means,
63. With ignition means and changeable exhibitor,
66. With receptacle.
47. **Cigar-machine aprons.**
5. **Cigar-machines—**
39. Adjuncts,
40. Apron—
41. Moving rolling-table,
42. Stationary rolling-table,
43. Endwise-moving filler,
44. One traveling apron,
45. Roller,
46. Two traveling aprons.
48. **Cigar-makers' implements—**
49. Wrapper-cutters.
20. **Cigar-perforators.**
51. **Cigar supports and stands.**
52. **Cigars, cigarettes, and cartridges.**
6. **Curing.**
55. **Dressing, casing, and flavoring.**
7. **Granulating.**
60. **Leaf-treating—**
56. Booking,
58. Stem-crushing,
57. Stemming.
30. **Moistening.**
9. **Molding cigars.**
10. **Mouthpieces.**
11. **Packing.**
13. **Pipe-cleaners.**
12. **Pipes and stems.**
14. **Plug-making.**
15. **Plugs.**
31. **Smoking-tobacco.**
22. **Smoking-tubes.**
16. **Snuff manufacture.**
Tobacco-cutters—
33. Pivoted knife,
34. Reciprocating knife,
35. Rotating knife.
21. **Tobacco-hangers.**
59. **Tobacco-users' appliances.**
36. **Wrappers.**

132.—TOILET.
30. **Boot-holders, horns, and jacks.**
3. **Combs—**
17. Cleaners,
16. Personal wear.
18. **Hair-crimpers.**
19. **Hair-curlers—**
20. Rotary.
31. **Hair-dressers' guides.**
22. **Hair-fasteners.**
23. **Hair structures—**
24. Making.
25. **Hat-fasteners.**
8. **Mustache-guards.**
32. **Toilet kits—**
35. Hair brush and comb,
36. Manicuring,
34. Powder box and puff,
33. Soap-holder and shaving-brush.
12. **Toothpicks.**

* See Definitions of Revised Classes.

133.—COIN-HANDLING.*
- 1. **Miscellaneous.**
- 2. **Change-makers.**
- 3. **Assorters.**
- **Deliverers—**
  - 4. Multiple,
  - 5. Single—
    - 6. Hand-operated.
- 8. **Counters.**
- 7. **Tubes.**
- 9. **Packages—**
  - 10. Wrappers.
- 11. **Receptacles—**
  - 12. Mats and trays—
    - 13. Counter,
    - 14. Mounted.

134.—LIQUID COATING COMPOSITIONS.*
- 1. **Miscellaneous.**
- 1.5. **Ink-repellent.**
- 24. **Furniture-polish.**
- 25. **Stove-polish.**
- 27. **Window-frost preventive.**
- 2. **Barrel-lining—**
  - 3. Bituminous and resinous—
    - 4. Tar,
    - 5. Wax,
  - 6. Gelatinous and gummy.
- 7. **Leather coating and polishing—**
  - 8. Bituminous and resinous—
    - 9. Wax,
  - 10. Gelatinous and gummy.
- 11. **Fabric coating and waterproofing—**
  - 12. Proteids,
  - 13. Bituminous and resinous—
    - 14. Tar,
    - 15. Wax,
  - 16. Gelatinous and gummy,
  - 17. Rubber.
- 17.5. **Puncture-healing.**
- 18. **Sizing—**
  - 19. Laundry starch and polish,
  - 20. Proteids,
  - 21. Bituminous and resinous—
    - 22. Wax,
  - 23. Gelatinous and gummy.
- 28. **Ink—**
  - 29. Sympathetic,
  - 30. Branding,
  - 31. Copying,
  - 32. Indelible,
  - 33. Fraud-preventive,
  - 34. Stamping,
  - 35. Printers'—
    - 36. Bituminous and resinous,
  - 37. Writing—
    - 38. Powders.
- 24.5. **Metal-depositing.**
- 79. **Pyroxylin.**
- 26. **Varnish.**
- 39. **Paint—**
  - 40. Antifouling and insecticidal—
    - 41. Bituminous and resinous—
      - 42. Tar,
      - 43. Wax,
    - 44. Fireproof—
      - 45. Soluble silicates,
    - 46. Distemper,
    - 47. Luminous,
    - 48. Stains,
    - 49. Fillers,
    - 50. Proteids,
    - 51. Bituminous and resinous—
      - 52. Tar,
      - 53. Wax,
    - 54. Rubber,
    - 55. Gelatinous and gummy,
    - 56. Vehicles,
    - 57. Driers,
    - 58. Pigments—
      - 59. Iron salts,
      - 60. Lampblack—
        - 61. Reciprocating collector-plate,
        - 62. Reciprocating scraper,
        - 63. Rotating burners,
        - 64. Rotating collector-plate,
        - 65. Rotating cylinder,
        - 66. Settling-chambers,
      - 67. Lead salts—
        - 68. Attrition process,
        - Dry process—
          - 69. Carrier,
          - 70. Stack,
          - 71. Pots,
        - 72. Treating,

134.—LIQUID COATING COMPOSITIONS—Continued.
- **Paint—Continued.**
  - Pigments—Continued.
    - Lead salts—Continued.
      - Wet process—
        - 73. Alkali,
        - 74. Ammonium acetate,
        - 75. French,
      - 76. Metallic powders,
      - 77. Ultramarine,
      - 78. Zinc salts.
- 78.5. **Saturating or indurating—**
  - 78.6. Wood or pulp products only.

135.—TENTS, CANOPIES, UMBRELLAS, AND CANES.*
- 1. **Tents—**
  - 2. Umbrella type,
  - 3. Frames—
    - 4. Folding,
  - 14. Heaters, lighters, ventilators, and doors,
  - 15. Pegs, poles, and cover-fastenings.
- 5. **Canopies—**
  - 6. Boat,
  - 7. Bicycle,
  - 8. Hanging covers.
- 9. **Canopy-supports—**
  - 10. Baby-carriage,
  - 11. Bicycle,
  - 12. Body-harness.
- 16. **Umbrellas, combined—**
  - 17. Umbrellas and canes,
  - 18. Imitation-cane case,
  - 19. Independent stick.
- 20. **Umbrellas—**
  - 21. Suspended,
  - 22. Self opening and closing—
    - 23. Tensioned rib and stretcher,
    - 24. Handle release,
  - 25. Folding—
    - 26. Sliding rib,
  - 27. Auxiliary frame-brace,
  - 28. Runners and notches,
  - 29. Rib and stretcher joints—
    - 30. T-head and socket,
  - 31. Ribs and stretchers,
  - 32. Gears,
  - 33. Covers, linings and cases—
    - 34. Covers and linings, detachable,
    - 35. Sight-openings and ventilators,
    - 36. Rib-tips, top-protectors, and fasteners,
  - 37. Retainers—
    - 38. Runner—
      - 39. Sliding,
      - 40. Spring—
        - 41. Modified runner,
      - 42. Stick-hinge locked,
      - 43. Turning,
      - 44. Tip,
    - 48. Drip-cups.
- 13. **Umbrella-supports.**
- 45. **Canes and sticks—**
  - 46. Umbrella-sticks,
  - 47. Modifications and attachments,
  - 49. Crutches—
    - 50. Extensible,
    - 51. Handholds,
    - 52. Arm-rests,
    - 53. Tips,
  - 53.1. Stilts—
    - 53.2. Steps,
  - 54. Tips.

137.—WATER DISTRIBUTION.
- **Check-valves—**
  - 122. Radiator-vent.
- **Cocks and faucets—**
  - Reversing—
    - Reciprocating—
      - 151. Horizontal,
      - 148. Rotary,
    - 27. Tank,
    - 35. Thermal—
      - 92. High temperature,
      - 93. Water-closet valves.
- 9. **Cut-offs and spouts.**
- 101. **Feeders.**
- 104. **Float-valves.**
- 13. **Hydrants and plugs.**
- 102. **Indicators.**

137.—WATER DISTRIBUTION—Con.
- **Leak-stoppers—**
  - 99. Patches and plugs.
- **Mains and pipes—**
  - 112. Baffles,
  - 70. Cleaners,
  - 71. Cushions,
  - 90. Hose—
    - 105. Take-up,
  - 77. Leak-detectors,
  - 75. Pipes,
  - 76. Stoppers,
  - 78. Systems—
    - 79. House,
  - 73. Taps,
  - 72. Thawing,
  - 91. Thread-protectors,
  - 100. Tubes,
  - 69. Valves.
- 111. **Miscellaneous.**
- 160. **Mufflers.**
- 156. **Pressure-responsive devices—**
  - 157. Diaphragm.
- 53. **Safety-valves—**
  - 137. Steam-engine.
- 18. **Sampling-tubes.**
- 20. **Siphons.**
- 21. **Tanks—**
  - 68. Automatic—
    - 106. Siphon.
- 103. **Traps—**
  - Float-valve—
    - 113. Air-port,
  - Pressure-operated valve—
    - 114. Air-port.
- 139. **Valve actuation—**
  - 152. Flow control,
  - 153. Fluid-pressure control,
  - 159. Marine-governor type.
  - 145. Periodic—
    - 146. Rotary,
  - 140. Speed-controlled—
    - 141. Periodic—
      - 142. Rotary,
    - 143. Pressure-motor,
  - 144. Systems—
    - 158. Turbine control.

138.—HYDRAULIC MOTORS.
- 13. **For cranes.**
- 8. **For elevators—**
  - 14. Valves,
  - 15. Varying power.
- 9. **For jacks.**
- 10. **For presses—**
  - 16. Valves,
  - 17. Varying power.
- 23. **Miscellaneous.**
- **Rotary—**
  - 20. With pump-supply.

139.—WEAVING.
- 47. **Bag-turning machines.**
- 5. **Carpet-rag loopers.**
- 6. **Chenille.**
- 40. **Chenille-machines.**
- 50. **Cutting double pile fabrics.**
- 67. **Driving and lay motions.**
- 9. **Fabrics—**
  - 70. Elastic,
  - 71. Pile,
  - 72. Tubular.
- 41. **Fringe-machines.**
- 10. **Fringes.**
- 73. **Heddle-frames.**
- 13. **Heddle-machines.**
- 14. **Heddles.**
- 16. **Jacquard mechanism.**
- 74. **Lay structures.**
- 75. **Lease-rods.**
- 18. **Looms—**
  - 1. Bag,
  - 2. Basket,
  - 3. Buttonhole,
  - 7. Circular,
  - 84. Cross-weaving.
  - 11. Haircloth,
  - 12. Hand,
  - 15. Irregular,
  - 17. Lappet,
  - 19. Narrow ware
  - 20. Needle,

* See Definitions of Revised Classes.

139.—**WEAVING**—Continued.
- **Looms**—Continued.
  - 23. Pile fabric—
    - 62. Longitudinal wires,
    - 64. Pile-wire motions,
    - 63. Pile-wires,
    - 65. Terry,
    - 66. Tufted,
  - 32. Slat, cane, and straw,
  - 68. Swivel,
  - 85. Weft-replenishing,
  - 39. Wire.
  - 77. **Loose-reed motions.**
  - 42. **Pattern chains.**
  - 22. **Picker-checks.**
  - 21. **Pickers.**
  - 86. **Reed-machines.**
  - 87. **Reeds.**
  - **Shedding**—
    - 78. Cam and treadle,
    - 80. Harness connections,
    - 88. Harness-retractors,
    - 79. Pattern-controlled.
  - 28. **Shuttle-boxes.**
  - 29. **Shuttle-checks.**
  - 30. **Shuttle-guards.**
  - **Shuttle-motions**—
    - 48. Fly,
    - 83. Magnetic,
    - 69. Pneumatic,
    - 49. Positive.
  - 43. **Shuttle-threaders.**
  - 27. **Shuttles**—
    - 44. Cop-cell and cover,
    - 45. Float-detecting,
    - 46. Guides and tensions,
    - 89. Spindles and tips,
    - 90. Weft-detecting.
  - 52. **Stopping**—
    - 51. Protector mechanism,
    - Warp stop-motions—
      - 91. Electrical,
      - 92. Mechanical,
    - 54. Weft stop-motions.
  - 61. **Take-ups and let-offs**—
    - 56. Beams,
    - 57. Escapement let-offs,
    - 58. Friction let-offs,
    - 81. Guide and whip rolls,
    - 59. Let-offs,
    - 60. Take-ups.
  - 36. **Temples.**
  - 82. **Treating warp and web.**
  - 98. **Warp-replenishing**—
    - 94. Drawing,
    - 95. Uniting.
  - 38. **Weft-forks.**

140.—**WIRE-WORKING.***
- **Combined machines.**
- **Miscellaneous.**
- **Article making or forming**—
  - Heddles,
  - Bale-ties,
  - Box-straps,
  - Bails,
  - Ferrules,
  - Hat-wires,
  - Conical springs—
    - By rolls,
  - Hooks—
    - Garment,
  - Clips—
    - Clothespins,
  - Belt-lacings,
  - Cork-fasteners,
  - Corkscrews,
  - Hairpins,
  - Rings,
  - Spring-setting,
  - Stays—
    - Garment,
  - Stud-spirals,
  - Forms and frames—
    - Revoluble.
- **Applying wire**—
  - Bottles and corks—
    - Rotary bottle,
  - Brush-making,
  - Card-clothing—
    - Making—
      - Fillet-feeding,
  - Comb-making.
- **Fabric-making**—
  - Rotary machines,
  - All wire—
    - Multiple strand,
    - Hexagonal mesh,
    - Quadrangular mesh—
      - Coiled,
    - Diamond mesh,
    - Stay-applying—
      - Clip-joining,
      - Wrapped loop,
      - Short stay,
      - Looped strand,
      - Successively-wrapped stay,
    - Portable machines—
      - Mesh-making,
      - Stay-applying—
        - Multiple strand,
        - Clip-joining,
        - Wrapped loop,
        - Looped strand,
        - Successively-wrapped stay,
      - Edge-strand binding,
    - Slat and wire—
      - Slat-cutting,
      - Magazine,
      - Dummy-spacing,
      - Movable carriage,
      - Strand-twisting—
        - Embedding,
        - Beaters,
        - Spreaders,
      - Strand-coiling,
      - Weavers,
      - Twister-heads,
      - Portable machines—
        - Magazine,
        - Strand-twisters—
          - Slat adjustment,
          - Plumb adjustment,
          - Beaters,
          - Vertically adjustable,
          - Eccentric type,
          - Wire-crossers—
            - Oscillatory,
        - Strand-coilers,
        - Weavers,
        - Tie-wire appliers,
      - Spacers,
    - Clamps,
    - Implements—
      - Magazine—
        - Revoluble head,
      - Clip-affixing,
      - Slat-attaching—
        - Tie-wire appliers.
  - **Barbing**—
    - Barb-wire feeding—
      - Multiple strand,
      - Four-point barbs—
        - Strand-crimping,
        - Rotary coilers,
      - Strand-crimping,
      - Rotary coilers,
    - Sheet metal,
    - Separate barbs,
    - Pickets,
    - Implements—
      - Revoluble head.
  - **Knotting.**
  - **Loop-forming**—
    - Implements,
    - Coil-springs.
  - **Eye-forming.**
  - **Crimping**—
    - Implements.
  - **Fabrics, working**—
    - Stretchers—
      - Frame-attaching—
        - Bed-bottoms.
  - **Joining wire**—
    - Electric welding,
    - Machines—
      - Interlocking eyes, making,
      - Revoluble head,
    - Tying-dies,
    - Implements—
      - Twisters—
        - Revoluble head,
        - Spread wire,
        - Plier type,
        - Revoluble head.
  - **Implements**—
    - Stretchers—
      - Cutting feature,
    - Coiling.
  - **Wire-feeding**—
    - Automatic stop,
    - Drum—
      - Tangential contact,
    - Intermittent—
      - Oscillating clamp,
      - Recessed roller,
      - Short lengths.
    - Tension devices—
      - Equalizers,
      - Friction-clamp,
      - Friction-roller,
      - Tortuous course—
        - Adjustable.
    - **Wire cutting and straightening**—
      - Predetermined lengths.
    - **Wire-cutting**—
      - Dies,
      - Oscillating apertured cutter,
      - Pivoted cutter,
      - Reciprocating cutter,
      - Rotary cutter.
    - **Wire-straightening**—
      - Rolls.
    - **Wire-twisting.**

141.—**WASHING APPARATUS.**
- 6. **Barrel-washers.**
- 7. **Bottle and can washers.**
- 9. **Dish-cleaners.**
- 8. **Dish cleaners and drainers, combined.**
- 10. **Dish-cloth holders.**
- 11. **Dish-drainers.**
- 12. **Miscellaneous fiber and pulp washers.**
- 13. **Roll-cleaners.**
- 3. **Tumbler-washers.**
- 5. **Wool-washing machines.**

142.—**WOOD-TURNING.***
- 1. **Miscellaneous.**
- **Polygonal section**—
  - Annular work-holders—
    - 52. Chucks.
  - **Pattern-section**—
    - 3. Many-spindle lathes,
    - Oval form—
      - Guided chucks—
        - 16. Counterpoises,
      - Copying—
        - Cutter—
          - 7. Laterally and longitudinally movable,
          - Rotary—
            - 11. Fixed bearings,
            - 13. Laterally movable,
            - 15. Longitudinally movable,
      - Clamped work—
        - Cutter-chisel—
          - 8. Laterally and longitudinally movable,
      - Cam-controlled—
        - Cutter—
          - 6. Laterally and longitudinally movable,
          - Rotary—
            - 10. Fixed bearings,
            - 12. Laterally movable,
            - 14. Longitudinally movable,
        - Cutter—
          - 9. Rotary.
  - **Circular section**—
    - 4. Many-spindle lathes—
      - 5. Automatic spindle-feed,
    - Spiral-grooving—
      - 23. Hollow cutter-head,
      - Cutter—
        - 26. Rotary—
          - 24. Pattern-guide,
          - 25. Hollow mandrel,
          - 33. Rack-and-pinion feed,
          - 34. Roller-feed,
        - 35. Chisel,
    - 17. Automatic spindle-lathes—
      - 18. Endless feed—
        - 19. Disk,
        - 20. Chute-feed,
      - Clamped work—
        - Hollow cutter-head—
          - 45. End-turning,
        - Cutter-chisel—
          - 46. Longitudinally movable,
        - 32. Hollow cutter-head—
          - 31. Cutter-chisel—
            - 27. Radially-movable, pattern-guide—
              - 28. Rotary,
            - Pattern—
              - 30. Radially movable,
              - 29. Radially movable,

* See Definitions of Revised Classes.

142.—**WOOD-TURNING**—Continued.
Circular section—Continued.
Cutters—
Chisels, plain and pattern—
21. Pattern-guide,
Rotary and chisel—
22. Pattern,
Cutter—
Slicing—
36. Longitudinally movable,
40. Rotary—
37. Pattern-guide,
41. Pattern,
42. Chisel—
38. Pattern-guide—
39. Rotary,
43. Pattern—
44. Disk.
47. Carriage-feed.
48. Tool-rests and work-supports.
49. Tool-rests.
Steady-rests—
50. Yielding.
53. Lathe-centers.
54. Hollow mandrels.
55. Attachments.
56. Turning-tools.
Work-holders—
57. Socket.

143.—**WOOD-SAWING.***
1. Combination-machines.
2. Hoop-pole machines—
3. Band-saw.
8. Shingle-machines—
9. Reciprocating saw,
10. Belt-feed,
11. Dog-and-step feed,
12. Roller-feed,
13. Tilting gage,
14. Tilting table—
15. Rotary carriage.
4. Resawing-machines—
5. Band-saw.
6. Mitering-machines—
7. Reciprocating saw.
16. Arc-saw machines.
17. Band-saw machines—
18. Centered log,
19. Horizontal saw,
20. Inclined,
21. Multiple idlers,
22. Multiple saw,
23. Retarded idler,
24. Tilting frame,
25. Reciprocating carriage,
26. Special feed,
27. Automatic tension-regulators,
28. Catchers,
29. Pulley cleaners and lubricators,
30. Pulleys,
31. Saw-lead adjustments.
32. Chain-saw machines.
33. Circular-saw machines—
34. File-cutting,
35. Adjustable saw—
36. Angular,
37. Lateral,
38. Angular—
39. Centered log,
40. Auxiliary saw,
41. Drop-saw,
42. Knife-disk,
43. Portable,
44. Rim-driven,
45. Successive,
46. Swinging saw,
47. Traveling saw,
48. Special feed,
49. Chain-feed,
50. Lathe-feed,
51. Pusher-feed,
52. Reciprocating carriage—
53. Automatic feed,
54. Mechanically operated,
55. Roller-feed—
56. Gang,
57. Rotary carriage,
58. Swinging carriage,
59. Tilting work-support
60. Reciprocating-saw machines—
61. Drag—
62. Automatic return,
63. Crank,
64. Lever,
65. Lever and bow,
66. Lever and gears,
67. Lever and lazy-tongs,
68. Motor,
69. Oscillatory,

143.—**WOOD-SAWING**—Continued.
Reciprocating-saw machines—Continued.
70. Scroll—
71. Frame,
72. Free-end saw,
73. Spring return,
74. Swivel saw,
75. Special cut—
76. Pattern-guide,
77. Pivoted work-holder,
78. Tilting saw-frame,
79. Laterally-adjustable arm,
80. Piston-connected,
81. Vibrated saw—
82. Lever-driven,
83. Pivoted guides,
84. Roller-feed.
85. **Tubular-saw machines.**
105. **Sawmill-carriages**—
106. Friction-feed—
107. Disk,
108. Motor-feed,
109. Offsetting—
110. Draft-operated,
111. Friction-operated,
112. Lever-operated,
113. Track-operated.
114. **Sawmill set-works**—
115. Automatic,
116. Direct-actuated,
117. End dogs,
118. Fluid-operated,
119. Pawl and rack,
120. Power-operated,
121. Spring-retracted,
122. Supplemental support,
123. Wedge,
124. Appliances.
125. **Sawmill-dogs**—
126. Lever,
127. Lever and cam,
128. Lever and coöperating gears,
129. Lever, gear and rack,
130. Lever, pawl and rack,
131. Screw.
92. **Log transfers**—
93. Pusher-blocks,
94. Trough and kicker.
95. **Log turners and deck-blocks.**
96. **Log deck-blocks.**
97. **Log-turners**—
98. Bar and chain,
99. Bar and inclined pistons,
100. Bar and parallel pistons,
101. Bar and piston,
102. Endless,
103. Hook,
104. Hook and chain.
132. **Saw-tables.**
133. **Saws**—
134. Bent,
135. Chain,
136. Dished,
137. Expansion-aperture,
138. Gumming-aperture,
139. Sectional,
140. Smoothing.
141. **Saw-teeth**—
142. Cross-cut,
143. Planer,
144. Reversible.
145. **Saw-teeth, fastenings**—
146. Bridge-plate,
147. Cap—
148. Separable bit,
149. Key,
150. Key and locking-plate,
151. Locking-plate,
152. Spring-latch,
153. Wedge,
154. Wedge and locking-plate.
Saw-hanging—
155. Circular saw,
156. Reciprocating saw.
157. **Sawing-machine appliances.**
158. **Saw cleaners and oilers.**
159. **Saw-guards.**
160. **Saw-guides**—
161. Back-disk,
162. Back-roller,
163. Drag,
164. Oilers,
165. Pivoted arm,
166. Sliding arm,
167. Work-engaging.
168. **Saw-table gages**—
169. Angular adjustment—
170. Vertical,
171. Curve-cutting,
173. Roller,

143.—**WOOD-SAWING**—Continued.
Saw-table gages—Continued.
174. Sliding—
175. Link,
176. Rack and pinion.
86. **Miter-boxes**—
87. Adjustable—
88. Biplane,
89. Swinging saw-guide,
90. Swinging work-guide.
91. **Sawbucks.**

144.—**WOODWORKING.***
50. **Match-making**—
51. Wax and paper,
52. Cutting, framing, and dipping—
53. Die-punches,
54. Cutting and framing—
55. Die-punches—
56. Fixed,
57. Cutting and coiling,
58. Framing and dipping,
59. Coiling,
60. Dipping,
61. Box-filling,
Dipping-frames—
62. Emptying,
63. Filling—
64. Hopper-feed,
65. Dipping-frames,
66. Splint-feed mechanism.
207. **Osier-peelers.**
208. **Rossing bark.**
2. **Special-work machines**—
3. Combined—
5. Blind and sash cutting—
6. Relishing,
7. Box-blank,
8. Chair-round tenoning and sawing,
9. Clothespin,
10. Conveyer-flight,
11. Handle,
12. Pin,
13. Shingle,
14. Spool,
15. Wheel tenoning and boring,
16. Wheel-hub,
17. Wheel-felly boring and sawing,
18. Wheel-spoke tenoning and sawing,
19. Window-stile-pocket cutting,
4. Circular section.
Single or combined—
20. Disk cutting and boring,
21. Disk-cutting—
22. Blank sawing, feeding, and punching,
23. Rotary tubular cutter,
24. Sweep-cutter,
25. Box-hooping,
26. Comb-teeth cutting,
27. Hinge-seat cutting,
28. Pencil-wood making,
29. Piano-hammer felting,
30. Pin-pointing,
31. Pin-setting,
32. Screw-driving,
33. Tray-making,
34. Tree-felling.
1. **Combined machines**—
35. Boring and sawing,
36. Planing and matching,
37. Planing, matching, and dividing,
38. Planing and polishing,
39. Planing and sawing,
40. Riving and shaving,
41. Shaping and dividing,
42. Slicing and scoring,
43. Slicing and shaving—
44. Converging knives,
45. Tenoning and boring,
46. Turning and boring,
47. Turning and polishing,
48. Turning and sawing.
49. **Miscellaneous single-operation machines.**
Mortising—
67. Multiple chisel—
68. Portable,
69. Auger-cutter—
70. Portable,
71. Automatic step-feed,
72. Chain cutter—
73. Portable,
Chisel—
74. Boring and mortising,

*See Definitions of Revised Classes.

144.—**WOODWORKING**—Continued.
Mortising—Continued.
75. Chisel—
76. Portable,
77. Chisel-reversers,
78. Hollow chisel and bit—
79. Portable,
80. Oscillating chisel—
81. Portable,
82. Rotary cutter—
83. Portable,
84. Work-supports.
85. **Dovetailing**—
86. Consecutive cutters,
87. Frusto-conical bit,
88. Inclined chisel,
89. Inclined rotary disk.
90. **Matching**—
91. End.
92. **Boring**—
93. Special work,
Brush—
94. Multiple bit,
95. Rotating work-holder,
96. Tilting work-holder,
97. Wheel-hub—
Axial—
98. Stationary bit-stock,
99. Stationary work—
100. Inclined bit-stock,
101. Opposite rotary bit-stocks,
102. Wheel-felly,
103. Swinging,
Portable—
104. Hand—
105. Overhead work,
106. Angularly adjustable,
Long work—
107. Automatic step-feed,
108. Hand-operated step-feed,
109. Traveling tool,
110. Multiple—
111. Double-ended bit-stock,
112. Relative lateral adjustment,
113. Hollow auger.
Planers—
114. Miscellaneous,
115. **Scrapers,**
Beveling—
124. Lateral,
Longitudinal—
125. Inclined work-pocket,
126. Shifting-cutter,
127. Shifting work-support,
Rotary cutter—
116. Cylinder—
117. Double surfacers,
131. Cylinder—
118. Bearings,
119. Disk—
120. Traveling,
Stationary cutter—
132. Bit adjustments,
121. Reciprocating cutter—
122. Lateral,
123. Endless-cutter carrier,
128. Endless bed,
129. Bed adjustments,
130. Cutter adjustments.
133. **Gaining.**
Shaping—
134. Miscellaneous,
135. Box-trimming,
136. Grooving,
137. Pattern—
138. Miscellaneous,
Polygonal forms, indexed work,
139. Rotating table, shifting cutter,
140. Gear-guided cutter,
141. Crank-guided cutter,
Cam—
142. Cutter-guiding,
143. Work-guiding,
Templet—
144. Cutter-guiding—
144.5. Templets,
145. Work-guiding,
146. Oscillating knife,
147. Reciprocating knife,
148. Reversible cutter,
149. Pattern-knife, swinging frame,
150. Rotary cutter, end thrust,
151. Universally-jointed cutter-shaft,
152. Curved-work guide,
153. Curved-bar work-support,
154. Rotary work-carrier.
Shaving—
155. Fixed knife—
156. Circular knife-block,
157. Drum-feed,
158. Roller-feed,

144.—**WOODWORKING**—Continued.
Shaving—Continued.
159. Knife-pair—
160. Gripper,
161. Roller-feed.
162. **Slicers**—
163. Reslicers,
Strip-cutting—
164. Converging knives—
165. Lathe-feed,
166. Lathe-feed,
167. Arc-cut,
Beveling—
168. Alternate end feed,
169. Shifting, knife-guide,
170. Tilting gage,
171. Tilting table,
172. Cylinder—
173. Grooving,
174. Radial knife,
175. Fixed knife,
176. Rotary disk,
Stay-log—
177. Oscillating,
178. Reciprocating,
179. Screw-feed,
180. Hopper-feed,
181. Roller-feed.
182. **Riving**—
183. Beveling,
184. Fixed knife.
185. **Slivering**—
186. Scoring-plane—
187. Endless belt,
188. Rotary,
189. Gang-saw,
190. Plunger and fixed knife,
191. Receiving and handling devices.
192. **Splitting and bundling.**
193. **Splitting**—
194. Self-feeding—
195. Roller and belt.
196. **Punching-cutters**—
197. Fixed die.
198. **Tenoning**—
199. Blind-slat—
200. Rotary cutters,
201. Rotary gaining-cutters,
202. Chisel-pair,
203. Rotary gaining-cutters—
204. Multiple tenon.
205. **Tenon-turning**—
206. Wheel-spoke.
209. **Veneer-lathes**—
210. Convertible,
211. Inclined knives,
212. Knives and knife-blocks,
213. Presser bars and rolls,
214. Stay-logs,
215. Strip-cutting attachments.
216. **Miter-cutters**—
217. Angle-knife.
Cutters—
Rotary—
218. Miscellaneous,
219. End thrust,
220. Frusto-conical,
Cylindrical—
221. Spiral bit,
230. Slotted bit-seat,
Saw—
Double—
222. Intermediate cutter,
238. Wabble,
239. Distorted,
Single—
223. Side cutter,
Polygonal—
224. T-slot bit-clamp,
225. Plane bit-seat,
226. Convex bit-seat,
227. Concave bit-seat,
Radial arms—
228. Plane bit-seat,
229. Slotted bit-seat,
Disk—
Multiple clamping-disks—
231. Tangential bit,
232. Pivoted bit,
233. Shank-bit,
234. Eccentric segmental bit.
Side-attached bit—
235. Edge-cutting,
Multiple—
236. Pattern,
237. Gang,
240. Solid,
241. Bits.
251. **Cutter-guards.**
252. **Cutter-hoods and dust-conveyers.**

144.—**WOODWORKING**—Continued.
Feed and presser mechanisms—
242. Miscellaneous,
243. Presser-bars and chip-breakers—
244. Sectional,
245. Blank-feeders,
Rolls—
Feed—
246. Miscellaneous,
247. Spring-pressed,
248. Weighted,
249. Presser,
250. Sectional.
253. **Work-guides.**
Wood-bending—
254. Bending and drying,
255. Bending-rollers,
256. Presses—
257. End compressors,
258. Hoop-gaging,
Former—
259. Fixed—
260. Collapsible,
261. End thrust,
262. Radial arm and roller,
263. Strap and windlass,
264. Strap and lever,
265. Strap and screw,
266. Strap,
267. Pivotal—
268. Coiling,
269. Clamps,
270. Bends,
271. Steaming.
278. **Machine work-clamps.**
279. **Glue-applying and pressing apparatus.**
280. **Glue-applying apparatus.**
281. **Veneer-presses**—
282. Roller,
283. Molding.
284. **Cork and bung presses.**
285. **Work-benches and tool-chests combined.**
286. **Work-benches**—
287. Adjustable stock-rest.
288. **Work-holding stands.**
289. **Clamps**—
296. Door-supporting,
291. Rectangular framework,
294. Box-joint,
Miter—
292. Multiple joint,
293. Single joint,
295. End and partition,
290. Bench,
297. Portable—
298. Ship-planking,
299. Extensible beam,
300. Parallel screw—
301. Quick-action,
302. Pivoted lever,
303. Straight-beam adjustable jaw,
304. U-beam—
305. Quick-action.
306. **Bench-dogs**—
307. Clamping,
308. Removable.
309. **Processes.**

145.—**WOODWORKING-TOOLS.***
1. **Miscellaneous.**
2. **Axes**—
3. Detachable bit.
Bench-planes.
5. Miscellaneous,
6. Chamfering,
7. Core-box,
8. Strip-cutters,
9. Flexible face,
10. Irregular work,
11. Bit adjustments—
12. Angular,
Longitudinal—
13. Pivoted lever and screw,
14. Screw,
15. Adjustable mouthpieces,
16. Bit-clamps,
17. Bits,
18. Lubricating attachments,
19. Handle attachments,
20. Gage attachments.
55. **Spokeshaves**—
56. Adjustable mouthpieces,
57. Beading-bits,
58. Gage.

* See Definitions of Revised Classes.

145.—WOODWORKING-TOOLS—Con.
- **Drawing-shaves—**
  - 49. Single handle.
  - 48. **Scraping-planes.**
  - 47. **Scrapers.**
  - 28. **Drawing-knives.**
  - 24. **Chisels—**
    - 25. Compound,
    - 26. Gage.
  - 31. **Handsaws—**
    - 32. Truss-frame,
    - 33. U-frame—
      - 34. Extensible,
      - 35. Attachments.
  - 27. **Cue-trimmers.**
  - 115. **Tenon-cutters.**
  - 114. **Reamers.**
  - **Augers—**
    - 116. Miscellaneous,
    - 122. Square-hole cutters,
    - 124. Expanding, reverse taper,
    - 125. Secondary cutters,
    - 126. Detachable cutters,
    - 127. Adjustable cutting-lip,
    - 123. Countersinks,
    - 121. Sweeps,
    - 117. Twist,
    - 118. Pod,
    - 119. Tubular—
      - 120. Core-cutters.
    - 128. Gage attachments.
  - 21. **Box-openers.**
  - 29. **Hammers—**
    - 30. Nail-placers.
  - 36. **Mallets.**
  - 46. **Nail-sets.**
  - 50. **Screw-drivers—**
    - Shell-guide—
      - 51. Spring-operated,
    - Holding attachments—
      - 52. Side-gripping jaws.
  - 53. **Spiral-tool drivers—**
    - Forward pressure—
      - 54. Reversible rotation.
  - 60.5. **Bit-frames.**
  - **Bit-stocks—**
    - 66. Miscellaneous,
    - Straight—
      - 67. Side-driving shaft,
    - U-crank arm—
      - 68. Speeding-gear,
      - 69. Angular bit-shaft,
    - Ratchet—
      - 70. Straight-crank arm,
      - 71. Pivoted pawls,
      - 72. Sliding pawls—
        - 73. Changeable face.
  - **Saw-handles—**
    - 108. Miscellaneous,
    - 109. Double grip,
    - Spindle—
      - 110. Side-clamping plates,
      - 111. Transverse socket and tightening-bar,
      - 112. Longitudinal socket and tightening-bar,
    - 113. Scroll.
  - 61. **Handles—**
    - 62. **Magazine—**
      - 63. Registering chambers,
    - Hollow—
      - 64. Retractile tool,
    - Cross-bar—
      - 77. Ratchet,
      - 75. Ratchet and pawl,
      - 76. Ratchet-clutch,
      - 78. Shield attachments.
  - 129. **Guides.**

146.—VEGETABLE CUTTERS AND CRUSHERS.
- 8. **Apple-parers.**
- 16. **Bunching-machines.**
- **Crushers and graters—**
  - 15. Reciprocating,
  - 9. Rotary.
- **Cutters—**
  - 12. Bread,
  - 7. Reciprocating,
  - 11. Rotary.
- 3. **Nutcrackers.**
- 14. **Peelers and washers.**
- 6. **Pitters, corers, and eye-cutters.**
- 5. **Seeders.**
- **Straw-cutters—**
  - Cutter and bed—
    - 17. Reciprocating knife,
    - 18. Rotary cylinder,
    - 19. Cylinder and concave,

146.—VEGETABLE CUTTERS AND CRUSHERS—Continued.
- **Straw-cutters**—Continued.
  - 20. Double cylinder,
  - 34. Feeders,
  - Pivoted knife—
    - 21. Rake-feed,
    - 22. Roller-feed,
    - 23. Without feed,
  - Rotary wheel—
    - 24. Follower-feed,
    - 25. Rake-feed,
    - 26. Roller-feed,
    - 27. Without feed,
  - Single cylinder—
    - 28. Rake-feed,
    - 29. Roller-feed,
    - 30. Without feed,
  - Sliding knife—
    - 31. Rake-feed,
    - 32. Roller-feed,
    - 33. Without feed.

147.—COOPERING.*
- 1. **Barrel-making machines.**
- 6. **Heading-machines.**
- 2. **Setting-up machines.**
- 3. **Setting-up formers.**
- 4. **Barrel-compressing machines—**
  - 5. Cone.
- 49. **Truss-hoops.**
- **Hoop-drivers—**
  - 7. Miscellaneous,
  - 8. Cam-operated,
  - 9. Hydraulic and steam,
  - 10. Lever-operated,
  - 11. Screw-operated,
  - 12. Weight.
- **Crozing and chamfering barrels—**
  - Clamped barrel—
    - 13. Rotary cutter-head,
  - Rotating barrel—
    - 14. Expansible cutter-head,
    - 15. Rotary cutter-head,
    - 16. Sliding tool,
    - 17. Swinging tool,
  - 24. Hand-crozes.
- **Crozing staves—**
  - 18. Miscellaneous,
  - Rotary cutter—
    - 19. Endless stave-carriage,
    - 20. Sliding stave-carriage,
    - 21. Swinging stave-carriage,
    - 22. Swinging,
  - 23. Sliding knife.
- **Jointing staves—**
  - 25. Miscellaneous,
  - Inclined molding-heads—
    - 26. Vertically-movable bed,
  - Rotary cutter—
    - 27. Pattern-feed,
  - 28. Converging saws,
  - 29. Disk cutter-head,
  - Single saw—
    - 30. Sliding carriage,
    - 31. Tilting carriage,
  - 32. Slicing-knife,
  - 33. Sliding plane,
  - Traveling saw—
    - 34. Curved guide,
  - 35. Longitudinal cutter-cylinder.
- 35.5. **Shaping staves.**
- **Barrel-head making—**
  - 36. Miscellaneous,
  - Fixed chuck—
    - 37. Rotary scribing-tool,
  - 38. Rotary saw,
  - Rotary chuck—
    - 39. Chisel-cutter,
    - 40. Double molding-cutter,
  - 41. Hand-scribers.
- 42. **Chamfering-tools**
- **Hoop-machines—**
  - 43. Miscellaneous,
  - 44. Racking,
  - 45. Lapping and pointing,
  - 46. Lock-cutting.
- 47. **Basket forming and nailing.**
- 48. **Basket-forming.**

148.—METAL TREATMENT.*
- 1. **Miscellaneous.**
- 2. **Casting, working, and heat treatment.**
- 3. **Casting and heat treatment.**

148.—METAL TREATMENT—Continued.
- 4. **Solid metal—**
  - 5. Removing metal coating from scrap,
  - 6. Coating—
    - 7. With heat,
  - 8. Cleaning,
  - 9. Cutting by heat,
  - 10. Electrical,
  - 11. Non-ferrous,
  - 12. Working and heat treatment,
  - 13. Heat treatment—
    - 14. With special compositions—
      - 15. Fused,
      - 16. Gaseous—
        - 17. Carbonaceous,
      - 18. Liquid,
        - 19. Carbonaceous,
    - 20. With fluid—
      - 21. Liquid,
    - 22. Compositions—
      - 23. Fluxing—
        - 24. Metallic,
        - 25. Oleaginous,
        - 26. Inorganic,
      - 27. Heat-treating—
        - 28. Liquid—
          - 29. Oleaginous,
          - 30. Carbonaceous.
- 31. **Stock—**
  - 32. Non-ferrous.

149.—HIDES, SKINS, AND LEATHER.
- 8. **Apparatus—**
  - 22. Coloring and polishing,
  - 19. Endless belts,
  - 16. Helical tools,
  - 20. Putting out and stretching—
    - 21. Stretching-frames,
  - 17. Reciprocating tools—
    - 18. Rocking frames,
  - 23. Rolling and embossing,
  - 14. Rotary cylinders,
  - 15. Rotating tools,
  - 12. Tables and frames,
  - 13. Tanners' tools,
  - 9. Tanning,
  - 11. Tumbling-drums,
  - 10. Vats.
- **Processes and compositions—**
  - 3. Bating,
  - 7. Coloring and polishing,
  - 6. Currying,
  - 2. Depilating,
  - 1. Preserving,
  - 4. Tanning,
  - 5. Tawing.

150.—CLOTH, LEATHER, AND RUBBER RECEPTACLES.*
- 0.5. **Miscellaneous.**
- **Portemonnaies and pocket-books—**
  - 35. Combination,
  - 36. Puzzle and secret compartment,
  - 37. Coin-holding,
  - 38. Bill-holding,
  - 39. Card and ticket cases,
  - 40. Key-pouches,
  - 41. Stamp-books,
  - 34. Article-holding,
  - 28. Body construction—
    - 29. U-frame,
    - 30. Gussets and partitions,
    - 31. Stays and braces,
    - 32. Blanks,
    - 33. Handles,
  - 42. Closures—
    - 43. Band or strap,
    - 44. Collapsible walls,
    - 45. Folding frame,
    - 46. Hinged lid,
  - 47. Safety attachments.
- 13. **Mail-bags**
  - 14. Multiple pockets,
  - 15. Closures
    - 16. Pivoted jaws,
    - 17. Collapsible frame—
      - 18. Quadrangular,
      - 19. Folding flap,
    - 20. Manifold, locking-tongue,
    - 21. Folding flap—
      - 22. Corner-fold,

*See Definitions of Revised Classes.

150.—CLOTH, LEATHER, AND RUBBER RECEPTACLES—Con.
Mail-bags—Continued.
23. Fasteners—
24. Tongue and staple,
25. Stud and keyhole-slot,
26. Pivoted catches, sliding bar,
27. Turn-bolt with catches.
1. **Bags—**
2. Harvesting,
3. Closures—
4. Pivoted jaws,
5. Parallel bars,
6. Folding bar and clamp,
7. Folding flap,
8. Mouthpiece, cap, or stopper,
9. Seam-valve,
10. Expanding spring,
11. Shirring-cords,
12. Handles.
48. **Baskets and buckets—**
49. Folding frame,
50. Rigid bottom,
51. Rigid frame.
52. **Covers and cases—**
53. Collar and cuff,
54. Tire and wire-coil.

151.—NUT AND BOLT LOCKS.*
1. **Flowing metal.**
2. **Coupled nut and bolt—**
27. Top stop—
28. Positive lock—
29. Side,
30. Thread-gripper,
14. Thread-lock—
15. Superposed nuts—
16. Oppositely threaded—
17. Key or pawl locked,
18. Side-locked,
19. Cam or cone grip,
20. Canted nut,
21. Distorted nut,
22. Distorted thread,
23. Longitudinal-key,
24. Radial key or gib,
25. Side clutch,
26. Tangential key,
3. Flexible washer,
4. Flexible key,
5. Cross-key—
6. Spring-seated,
7. Elastic gripping action,
8. Longitudinal key,
Pawl and ratchet—
9. Bolt-carried pawl,
10. Nut-carried pawl—
11. Flexible,
12. Pivoted,
13. Washer-carried pawl,
31. Wedged slotted bolt.
32. **Locked bolt.**
33. **Locked nut—**
34. Base-clutch—
35. Biting-tooth—
36. Coiled washer,
37. Nut-carried,
38. Friction,
39 Pawl and ratchet—
40. Nut-carried pawl,
41. Yielding interlocking washer,
42. Distorted,
43. Gravity nut or washer,
44. Side lock—
45. Rotatable washer—
46. Bent-tongued locked,
47. Pawl-locked,
48. Pawl and ratchet,
49. Flexible—
50. Automatic—
51. Coiled washer,
52. Spring-tongued washer-plate,
53. Inelastic washer-tongue,
54. Longitudinal—
55. Nut-held—
56. Reversed nut,
57. Side pin,
58. Spike-held,
59. Swinging,
60. Washer-tongue held,
61. Transversely sliding—
62. Key, plate, or bar—
63. Nut-held,
64. Sliding washer,
65. Transversely swinging,
66. Transverse base-locking key.

152.—RESILIENT TIRES AND WHEELS.
28. **Spring-wheels—**
49. Combined curved spring and rigid spoke,
50. Curved spring-spokes—
51. Positive braces, guides, or driving connections,
39. Cushioned inner hub—
44. Annular guide-flange—
45. Positive driving connection,
40. Pneumatic tube—
41. Annular guide-flange—
42. Positive driving connection,
43. Rubber cushion,
32. Cushioned inner rim—
37. Annular guide-flange—
38. Positive driving connection,
33. Pneumatic tube—
34. Annular guide-flange—
35. Positive driving connection,
36. Rubber cushion,
54. Cushioned lateral thrust,
29. Deformable outer rim—
31. Independent rim-segments, spring-pressed plungers,
30. Pivoted or linked rim-segments,
52. Helical spring-spokes,
47. Pivoted, telescoping, spring-carrying spokes,
46. Pneumatic tube,
48. Radial, fixed hub cylinders or spokes, spring-pressed plungers,
53. Radial or tangential spokes, fixed rim sockets and springs.
Tires—
1. Cushion—
2. Antislipping,
3. Armored—
4. Antislipping,
6. Fastening devices—
7. Sectional channels,
5. Inclosed cores,
8. Metallic springs,
9. Sectional,
10. Cushion and pneumatic combined,
11. Inflating—
11.5. Safety valves and gages,
12. Valves,
13. Pneumatic—
14. Antislipping,
Armored—
16. Antislipping,
17. Externally,
18. Internally,
19. Divided treads,
20. Fastening devices—
21. Sectional channels,
22. Multiple chambers,
23. Repairing—
24. Bandages,
26. Plugs and patches,
27. Tools.

153.—METAL-BENDING.*
1. **Binding and covering—**
1.5. Shoe-lace tipping.
Pipe expanders and flangers—
79. Non-traveling—
80. Segmental expander,
80.5. Traveling—
81. Rotary—
82. Wedge-feed.
2. **Combined operations—**
3. Angular bending and curving—
4. Pivoted bender—
5. Changeable former,
6. Angular bending and twisting,
7. Curving and corrugating—
8. Hammer-action.
9. **Beading and crimping rolls.**
10. **Miscellaneous.**
11. **Angular—**
12. Combined reciprocating bender and pivoted side-shaper,
13. Combined reciprocating bender and sliding side-shaper,
15. Pivoted bender—
16. Bed-clamped work—
17. Multiple side—
18. Inclosed forms,
19. Rotary,
20. Bender-attached work,

153.—METAL-BENDING—Continued.
Angular—Continued.
21. Reciprocating bender—
22. Inclosed forms,
23. Pan-shaped dies,
24. Screw-operated,
25. Bed-clamped work—
26. Rotary,
27. Rotary bending-head,
28. Roll—
29. Flanging—
30. Tinners' rolls,
31. Pivoted table.
32. **Curving or straightening—**
33. Combined reciprocating bender and pivoted side-shaper,
34. Combined reciprocating bender and sliding side-shaper,
35. Stretching,
36. Traveling flexible core,
37. Filer-frame,
38. Three-point jacks,
39. Pivoted bender—
40. Bender-attached work—
41. Beading and curving,
42. Beading or tube-forming,
43. Traveling bed,
44. Opposing jaws,
45. Sweep-arm—
46. Stationary clamped work,
47. Variable die-face,
48. Reciprocating bender—
49. Inclosed forms,
50. Automatic bend-detector,
51. Variable die-face,
52. Laterally traveling,
53. Screw-operated,
54. Roll—
55. Hoop,
56. Angle-bar—
57. Sectional rolls,
58. Barrel-shaped,
59. Edge-curling,
60. Skewed,
61. Inclosed-work releasing,
62. Boiler-formers,
63. Flexible cores.
64. **Coiling—**
64.5. Flat wire, edge-winding,
65. Shunt-guide,
66. Spiral die,
67. Traveling guide or mandrel.
68. **Corrugating—**
69. Tubes—
69.5. Elbow-bending,
70. Longitudinal bend,
71. Spiral bend—
72. Roll,
73. Transverse bend,
74. Bed and cylinder,
75. Pivoted bender,
76. Reciprocating bender,
77. Roll.
78. **Twisting.**

154.—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES.*
1. **Miscellaneous apparatus.**
2. **Miscellaneous processes.**
3. **Belt-making—**
4. Processes.
5. **Hose-making—**
6. Axial feed,
7. Convolute wind,
8. Processes.
9. **Tire-making—**
10. Fabric-structure building,
11. Thread-structure building,
12. Processes—
13. Filling feature,
14. Pneumatic—
15. Puncture-closing type.
16. **Ball-making—**
17. Golf-ball—
18. Filling feature,
19. Winding feature.
20. **Linoleum-making—**
21. Inlaid—
22. Pattern-forming—
23. From plastic masses,
24. From sheets,
25. Processes—
26. Inlaid.
27. **Heat - insulating - covering making—**
28. Processes.

* See Definitions of Revised Classes.

154.—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES— Continued.

29. **Yielding-fabric making—**
30. Corrugating and indenting—
31. Facing feature,
32. Facing corrugated and indented structure,
33. Processes.
34. **Fabric parchmentizing and uniting.**
35. **Fabric coating and uniting—**
36. Sheet and web,
37. Webs—
38. Roofing—
39. Sanding feature,
40. Processes.
41. **Affixing fabric coverings.**
42. **Adhering-seam forming.**
43. **Miscellaneous structure.**
43.5. **Roll structure.**
44. **Heat-insulating coverings—**
45. Air-spaced.
45.5. **Packing.**
45.9. **Composite boards.**
46. **Fabrics—**
46.5. Matrix-stock,
47. Decorative,
48. Elastic,
49. Floor,
50. Waterproof—
51. Roofing,
52. Wear and strain resisting,
53. Wire-reinforced,
54. Yielding—
54.5. Impression-surface,
55. Corrugated and indented,
56. Stair-pads.

156.—CHAIRS AND SEATS.*

1. **Miscellaneous.**
2. **Special—**
3. School desk and seat type—
4. Adjustable desk-tops,
5. Vehicle—
6. Convertible seats and berths—
7. Carriage type,
8. Reclining,
9. Shock-absorbing or spring,
10. Auxiliary seats—
11. Seat attachments,
12. Rear—
13. Forwardly-swinging links,
14. Shifting horizontally—
15. Plurality of seats,
16. Grip-handles,
17. Baby-jumpers—
18. Vertically-swinging arms,
19. Horizontally-moving supports,
20. Body-supports,
21. Adjustable backs or leg-rests,
22. Walkers' or skaters' supports—
23. Horizontally-moving supports,
24. Body-supports,
25. Dental or barber—
26. Angularly-adjustable seats,
27. Revolving,
28. Surgical and invalid type—
29. Inclined beds,
30. Rolling,
31. Commode-chairs,
32. Disappearing,
33. Aisle-forming,
34. Duet piano-stools,
35. Shoe salesmen's,
36. Photographers',
37. Body-attached,
38. Convertible high and low—
39. Chair on top of table,
40. Rocking.
41. **Convertible—**
42. Stepladders,
43. Tables,
44. Cribs,
45. Beds—
46. Extensible laterally,
47. Rearwardly-folding extensible backs,
48. Sectional seats—
49. Rearwardly-folding backs.
50. **Spring-supported—**
51. Bracket-supported,
52. Pedestal-supported,
53. Backs and seats,
54. Oscillating seats—
55. Pivoted at front or back.

155.—CHAIRS AND SEATS— Continued.

56. **Oscillating—**
57. Rolling or sliding,
58. Swings—
59. Motor-operated,
60. Oscillating frames,
61. Suspending means below seat,
62. Plurality of seats—
63. Operating means,
64. Separately-suspended seats,
65. Operating means,
66. Sofas, settees, or lounges,
67. Hammock-seats,
68. Adjustable or folding seats,
69. Rocking—
70. Operating means,
71. Platform—
72. Convertible to nonrocking,
73. Convertible to nonrocking—
74. Detachable rockers,
75. Folding—
76. Adjustable,
77. Tilting.
78. **Bracket-supported—**
79. Auxiliary seats,
80. Vertically-swinging brackets,
81. Horizontally-swinging brackets,
82. Vertically-adjustable brackets,
83. Folding seats—
84. Seats actuating other elements,
85. Opera-chair type—
86. Chairs in row,
87. School desk and seat type.
88. **Vertically adjustable—**
89. School desk and seat type,
90. Tilting,
91. Toggles or lazy-tongs,
92. Vertical screw—
93. Pedestal,
94. Pedestal,
95. **Revolving—**
96. Car-seat type—
97. Plurality of seats.
98. **Reversible—**
99. Interchangeable back and seat,
100. Reclining,
101. Walk-over backs—
102. Foot-rests,
103. Reversible backs—
104. Foot-rests.
105. **Reclining—**
106. Interconnected back and leg rest—
107. Synchronously-moving head-rest,
108. Stationary seat-frame—
109. Leg-rest operated by moving arm-rests,
110. Leg-rest operated by moving arm-rests,
111. Horizontally-moving leg-rests.
112. **Sofas, settees, and lounges—**
113. Angularly-adjustable ends,
114. Box-couches.
115. **Adjustable seats—** (Vertically adjustable, see subs. 88–94.)
116. Angularly-adjustable backs—
117. Folding chairs,
118. Independently movable,
119. Flexible back and seat,
120. Angularly—
121. Laterally,
122. Moving laterally.
123. **Combined tables and chairs—**
124. Table in front of chair—
125. Enlarged arms,
126. Table swinging vertically,
127. Table supported on both chair-arms,
128. Table supported on brackets,
129. Bottoms.
130. **Combinations of two or more seats—**
131. Auxiliary seating devices—
132. Convertible,
133. Circus-seat type.
134. **Pedestal-supported—**
135. Folding—
136. Crossed legs,
137. Folding legs,
138. Radiating arms or legs.
139. **Folding chairs—**
140. Laterally,
141. Integral rear legs and back,
142. Integral front legs and back—
143. Crossed legs—
144. Pivoted back,
145. Arm-rests,
146. Sliding legs,

155.—CHAIRS AND SEATS— Continued.

Folding chairs—Continued.

147. Crossed legs,
148. Parallel legs.
149. **Folding stools—**
150. Crossed legs,
151. Parallel legs.
152. **Folding and adjustable backs—**
153. Beach-seat type—
154. Angularly adjustable,
155. Pivoted on forwardly-extending arms,
156. Pivoted above seat,
157. Adjustable supporting-post,
158. Not pivoted to seat,
159. Adjustable arms,
160. Adjusting means at pivot,
161. Adjusting means below pivot,
162. Adjusting means behind back,
163. Adjusting means in front of back.
164. **Spring back-supports.**
165. **Foot-rests—**
166. Kneeling-stools—
167. Scrubbing,
168. Radiator,
169. Independent,
170. Moving horizontally beneath seat,
171. Swinging vertically,
172. Adjustable vertically.
173. **Head-rests—**
174. Portable—
175. Body-attached,
176. Changeable supporting-surfaces,
177. Folding or adjustable.
178. **Bottoms and backs—**
179. Spring—
180. Upholstery-covering,
181. Upholstery-supporting surfaces,
182. Covers and slip-seats,
183. Changeable supporting-surfaces,
184. Upholstered—
185. Tufted,
186. Veneer type,
187. Flexible.
188. **Attachments—**
189. Guards,
190. Garment-holders.
191. **Structural details—**
192. Wagon-seat type,
193. Bent wood,
194. Metal—
195. Car-seat type,
196. Fastening means,
197. Bracing means,
198. Arm-rests.

156.—CURTAINS, SHADES, AND SCREENS.

15. **Awnings—**
42. Frames,
43. Rigid, intermovable, sections,
44. Roll and reel.
Curtain—
33. Holders,
22. Pole-supports,
19. Poles,
20. Poles and rings,
21. Rings and pins,
46. Theater.
32. **Curtain-cord tighteners.**
40. **Curtain-tassels.**
16. **Flexible blinds.**
Shade—
24. Brackets,
25. Fastenings,
26. Guides,
27. Hangers, vertically adjustable,
28. Raisers,
29. Rollers—
30. Dropping,
34. Friction-brake,
35. Ratchet and pawl,
36. Spring,
31. Sticks.
23. **Shade and curtain hangers.**
17. **Venetian blinds.**
13. **Window-cornices.**
14. **Window-screens—**
37. Exits,
38. Extensible,
39. Rolling.
10. **Window-shades.**

* See Definitions of Revised Classes.

157.—**WHEELWRIGHT-MACHINES.***
1. **Miscellaneous.**
2. **Rim-compressors.**
3. **Spoke-setters—**
4. Work-holders and guides.
5. **Tire-setters—**
6. Rubber tires,
7. Trestles and tanks.
8. **Tire-tighteners—**
9. Felly-expanders—
10. Spoke-clamping.
11. **Tire-removers.**
12. **Spoke-extractors.**

158.—**LIQUID AND GASEOUS FUEL BURNERS.***
1. **Furnaces—**
2. Combined door and burner,
3. Locomotive type,
4. Liquid fuel—
4.5. Regenerative,
5. Retort—
6. Gas-making,
7. Gas—
7.5. Regenerative—
7.6. Separate flues,
1.5. Air-admission directors.
8. **Coal-stove attachments—**
9. Lid-burners.
10. **Fire-kindlers.**
11. **Combined oil and gaseous fuel.**
12. **Combined gas and coal.**
13. **Combined gas and water vaporizers.**
Self-heating tools—
14. Branding-irons—
15. Gas,
16. Hydrocarbon-reservoir,
17. Burning-tools—
18. Gas,
19. Hydrocarbon-reservoir,
20. Curling-irons—
21. Hydrocarbon-reservoir,
22. Roll-heating type,
23. Sadirons—
23.1. Gas,
23.2. Hydrocarbon-reservoir,
24. Soldering-irons—
25. Solder-feeders,
26. Gas,
27. Hydrocarbon-reservoir.
27.4. **Blowpipe—**
27.5. Flame-deflecting jet—
27.6. With pressure-generator.
Burners—
28. Liquid fuel—
29. Automobile—
30. Gas-chamber,
31. Starters,
32. Blast-lamp—
33. Hand-torches—
35. Wick type,
36. Fuel-feeding—
37. Maintained oil-level—
38. Float-controlled—
39. Liquid seal,
40. Fountain-feed—
41. Removable font—Cut-off,
42. Vertically-adjustable burner or tank,
43. Liquid seal,
Lamp-stove type—
44. Reservoir—
45. Protector and air-feeding,
45.5. Steam regulation,
46. Tanks—
46.5. Reserve supply,
47. Combined oil and gas,
48. Burner cut-off—
49. Retracting-pump,
Force-feed—
50.1. Gas,
50.2. Liquid,
50.3. Mechanical,
51. Siphon-feed,
52. Drop-feed,
53. Retort—
54. Superheating—
55. Burner-cap,
56. Oil, steam, or water—
57. Steam-jet,
58. Additional carbureter—
59. Central generator,
60. Movable vapor-deflector,
61. Auxiliary heater—
62. Subburner,

158.—**LIQUID AND GASEOUS FUEL BURNERS**—Continued.
Burners—Continued.
Liquid fuel—Continued.
Retort—Continued.
63. Overlying—
64. Mixing-chamber—
65. Burner-cap,
66. Underlying—
67. Conducting-plate—
68. Mixing-chamber and burner-cap,
69. Mixing-chamber and burner-cap,
70. Mixing-chamber and flame-deflector,
71. Side retort,
72. Wick-feed,
79. Coil,
80. Film,
81. Starters—
82. Continuously operated,
83. Lighting-cup—
84. Oil-charge measuring,
85. Lighting and relighting devices,
73. Spray—
74. Oil, air, and steam,
75. Oil and steam,
76. Oil and air,
77. Atomizers,
78. End nozzles,
86. Perforated combustion-tube—
87. Trough,
88. Wick,
89. Combustion-tubes,
90. Lighting arrangements,
91. Pan or tray—
92. Steam or air spray,
93. Water-surface,
94. Lamp type—
95. Water-vaporizers,
96. Absorbent—
97. Alcohol-lamp,
99. Gas—
100. Gas-logs,
101. Acetylene,
102. Gas-jet attachments—
103. Convertible,
104. Multiple—
105. Independent cut-off,
106. Mixing-tube,
107. Relatively adjustable,
108. Regenerative,
109. Pressure-burners,
110. Concentric gas and air jet,
111. Laboratory type,
112. Davy-lamp diaphragm,
113. Flame-deflectors,
114. Fuel-distributers,
115. Lighting devices,
116. Burner-caps—
117. Regulating,
117.5. Processes.
118. **Gas and air mixers—**
119. Proportional.
120. **Valves and cleaners—**
121. Pressure-governed.

160.—**STEAM AND VACUUM PUMPS.**
3. **Feeders and traps.**
1. **Miscellaneous.**
2. **Steam-loop.**

161.—**TIME CONTROLLING MECHANISM.***
1. **Miscellaneous.**
Annunciators—
Electric—
2. Selective alarm,
3. Single alarm—
4. Adjustable pin,
5. Auxiliary switch,
6. Mechanical.
7. **Valve-actuating mechanism—**
10. Stock-feeders,
8. Dampers,
9. Gas-cocks.
11. **Lighting mechanism—**
12. Electric,
14. Friction.

161.—**TIME CONTROLLING MECHANISM**—Continued.
15. **Timing mechanism—**
16. Culinary,
17. Game,
18. Speed,
19. Telephone-service,
20. Watchmen's,
21. Workmen's.
22. **Awakeners.**
23. **Alarms.**
24. **Time-balls.**
26. **Shutter-actuating mechanism.**

162.—**INJECTORS AND EJECTORS.**
Ejector—
3. Fluid-level controlled.
4. **Flue-ejectors—**
5. With spark-arresters—
6. Variable,
7. Variable—
8. Jet.
Injector—
2. Fluid-level controlled.
1. **Miscellaneous.**

163.—**NEEDLE AND PIN MAKING.***
1. **Needle-making—**
2. Knitting-needles—
3. Tongued,
4. Rotary blank-carrier,
5. Processes.
6. **Pin-making—**
7. Safety-pins.
8. **Assorting and packaging needles and pins.**

164.—**CUTTING AND PUNCHING SHEETS AND BARS.***
1. **Buttonholes—**
2. Machines,
3. Knives,
4. Pliers—
5. Modified scissors,
6. Scissors attachments.
Expanded metal—
6.5. Reciprocating,
6.6. Roller.
7. **Fence-barbs—**
8. Cutters and dies—
9. Roller,
10. Processes.
10.5. **Printers' leads.**
10.6. **Scrap-cutting.**
11. **Combined machines—**
12. Work-feeding,
13. Die cutting and punching,
14. Pivoted knife-carrier,
15. Reciprocating knife-carrier,
16. Roller-cutter and punch.
17. **Cutting—**
17.5. Sewing-machine attachments,
18. Die—
19. Machines—
20. Work-feeding—
21. Reciprocating feeder,
22. Roller-feed,
23. Reciprocating cross-head—
24. Shifting dies,
25. Reciprocating plunger—
26. Lever-operated,
27. Screw-operated,
28. Roller-die,
29. Dies—
30. Spiral-strip cutting,
31. Adjustable face,
32. Multiple concentric,
33. Blank-ejecting,
34. Machines—
35. Band-knife,
36. Fixed cutter—
37. Spiral strip,
38. Work-feeding—
39. Roller-feed,
40. Oscillating apertured cutters,
41. Pivoted cutter—
42. Work-feeding,
43. Transverse,
44. Lever-operated—
45. Work-clamping,
46. Compound leverage,

* See Definitions of Revised Classes.

164.—CUTTING AND PUNCHING SHEETS AND BARS—Con.
Cutting—Continued.
Machines—Continued.
47. Reciprocating cutter—
48. Work-feeding—
49. Roller-feed,
50. Notched work,
51. Automatic clamp,
52. Separately-operated clamp,
53. Draw cut—
54. Automatic clamp,
55. Separately-operated clamp,
56. Fluid-operated,
57. Lever-operated,
58. Cutters and bed-blocks,
59. Gages,
60. Rotary cutter—
61. Work-feeding—
62. Reciprocating feeder,
63. Curved-plate work,
64. Notched work,
65. Slitters and winders,
66. Transverse—
68. Work-feeding—
67. Printing-press attachments,
69. Rotary work-mandrel,
70. Cutters,
71. Sweep-cutter—
72. Elliptical work,
73. Traveling cutter-carriage—
74. Motor-driven cutter—
75. Reciprocating,
76. Rotary,
77. Roller-knife,
78. Cutting-tables—
79. Work-clamping,
80. Implements—
81. Pliers,
82. Sweep,
83. Traveling—
84. Roller-cutter.
85. **Punching**—
86. **Machines**—
87. Feeding and punching—
88. Reciprocating feed,
89. Roller-feed,
89.5. Hand-guided motor-driven,
108. Tube,
109. Tie-band tongue,
111. Punch-selector—
112. Keyboard-controlled—
113. Electrically operated,
114. Pattern-controlled—
115. Electrically operated,
90. Gang—
91. Lever-operated—
92. Foot,
93. Pattern,
98. Printers' rules,
99. Roller—
100. Printing-press attachments,
94. Hammer,
95. Hydraulic,
96. Lever-operated—
97. Foot,
101. Screw-operated,
102. Shaft-driven—
103. Tilting frame,
104. Stop devices—
105. Shaft-clutch,
106. Stroke adjustments,
110. Strippers and holddowns,
116. Feed mechanisms—
117. Reciprocating,
118. Dies and die-holders,
119. Implements—
120. Pivoted handles—
121. Pliers—
122. Turret,
123. Traveling roller,
124. Punches,
125. Processes.

165.—DESIGNS.
The subclasses conform as nearly as possible to the mechanical classes.

166.—WELLS.*
1. **Miscellaneous.**
2. **Flowing**—
3. Ejecting.

166.—WELLS—Continued.
4. **Well-casing**—
5. Drive-points and strainers—
6. Inserted strainer-plug,
7. Fabric strainer,
8. Wire-wound,
9. Shoes,
10. Packers—
11. Double,
12. Dog or slip type,
13. Plugs,
14. Heads—
15. Controllers.
16. **Cleaning apparatus**—
17. Heater,
18. Mechanical—
19. Bailer,
20. Washer.
21. **Processes.**

167.—MEDICINES.
2. **Capsules.**
3. **Disinfectants**—
12. Candles and holders.
4. **Extracts.**
5. **Hair dyes and tonics.**
6. **Insecticides.**
7. **Internal remedies.**
8. **Plasters.**
11. **Tobacco substitutes.**
9. **Topical remedies.**
10. **Veterinary.**

168.—FARRIERY.*
1. **Overshoes**—
2. Medicating,
3. Swamp.
4. **Shoes**—
5. Ox,
6. Hoof-spreading—
7. Hinged sections—
8. Spring,
9. Stretching-bar,
10. Wedge,
11. Auxiliary tread-plate,
12. Cushioned—
13. Soft tread—
14. Sole-pad,
15. Spring-heels,
16. Interference-pads.
17. Fastenings—
18. Boots,
19. Clamped sections,
20. Inclined flange,
21. Side spurs,
22. Toe and heel straps,
23. Nails and screws,
24. Shape.
25. Weights.
26. **Sole-pads**—
27. Medicating,
28. Elastic.
29. **Calks**—
30. Creeper-sections.
31. Removable—
32. Bolt.
33. Bolt and lug,
34. Clamped,
35. Dovetailed,
36. Hooked lug and pin,
37. Hooked lug and wedge,
38. Nail-calk,
Tenoned—
39. Botton-head,
40. Cross-pinned,
41. Friction,
42. Screw-threaded,
43. Wedged.
44. **Shoeing-stands.**
45. **Tools**—
46. Calk-sharpeners,
47. Hoof and shoe expanders,
48. Hoof cleaners and trimmers,
49. Nail-clenchers.

169.—FIRE-EXTINGUISHERS.*
1. **Miscellaneous.**
2. **Special applications**—
3. For car-heaters,
4. For oil-tanks.

169.—FIRE-EXTINGUISHERS—Con.
5. **Fluid systems**—
6. Chemical pressure-generating—
7. Automatic—
8. Pressure-controlled,
9. Gas-pressure discharge,
10. Gravity,
11. Gas—
12. Combustion products,
13. Pump-supply,
14. Plural source, mixing in transit—
15. Stream-impregnating,
16. Distributing systems—
17. Dry pipe,
18. Hand controls.
19. **Automatic valves**—
20. Pressure-controlled—
21. Lever system,
22. Differential area.
23. **Alarms.**
Wheeled types—
24. Fire-engines,
25. Water-towers.
26. **Automatic receptacles**—
27. Chemical-mixing,
28. Explosive,
29. Mechanical discharge.
30. **Portable vessels**—
31. Gas-pressure-
32. Chemical-mixing,
33. Piston discharge,
34. Buckets,
35. Tubes,
36. Grenades.
37. **Sprinkler-heads**—
38. Collapsible strut—
39. Compound,
40. Lever,
41. Direct support.
42. **Fusible connections.**

170.—MOTORS—FLUID-CURRENT.*
1. **Combined motors.**
2. **Wind-motors**—
3. Combined types,
4. Receiving-chamber—
5. Rotary receiver,
6. Endless chain.
7. Oscillatory,
8. Rotary—
9. Combined types,
10. Transverse axis—
11. Rotary support—
12. Guide or deflector attached,
13. Multiple wheels,
14. Guide or deflector—
15. Axially swiveled,
16. Angular vanes—
17. Adjustable,
18. Cylindrical gate,
19. Adjustable wheel,
20. Feathering-blades—
21. Collapsible bucket,
22. Flexible,
23. Parallel axes—
24. Positively operated—
25. Adjustable,
26. Adjustable,
27. Radial axes—
28. Positively operated—
29. Adjustable,
30. Adjustable,
31. Adjustable blades or buckets—
32. Flexible,
33. Parallel axes,
34 Radial axes,
35. Frame construction,
36. Wheel construction,
37. Parallel axis—
38. Multiple wheels—
39. Concentric,
40. Guide or deflector,
41. Wheel-deflection mechanism—
42. Vertical deflection,
43. Rearwardly-mounted wheel—
44. Governor-vane—
45. Axially swiveled,
46. Folding wheel and tail-vane—
47. Brake or stop,
48. Governor-vane,
49. Double-folding tail-vane,

* See Definitions of Revised Classes.

170.—MOTORS—FLUID-CURRENT—Continued.
- Wind-motors—Continued.
  - Rotary—Continued.
    - Parallel axis—Continued.
      - Wheel-deflection mechanism—Continued.
        - Folding wheel and tail-vane—Continued.
          - 50. Axially-movable wheel,
          - 51. Centrifugal governor,
          - 52. Normally folded,
          - 53. Self-gravitating,
          - 54. Rigidly adjustable,
          - 55. Feathering tail-vane,
        - 56. Steering and resistance devices—
          - 57. Wind-wheel,
        - 58. Adjustable wheel,
        - 59. Adjustable blades—
          - 60. Flexible,
          - 61. Axially swiveled,
          - 62. Radially pivoted—
            - 63. Groups,
            - 64. Brake or stop,
            - 65. Governor-vane—
              - 66. Vane on wheel,
            - 67. Centrifugal governor—
              - 68. Governor on wheel,
          - 69. Transversely pivoted—
            - 70. Single,
            - 71. Sectional,
            - 72. Brake or stop,
            - 73. Governor-vane,
            - 74. Centrifugal governor,
        - 75. Controlling devices,
        - 76. Frame construction—
          - 77. Rotary support—
            - 78. Yoke,
        - 79. Wheel construction—
          - 80. Frames and attachments,
    - 81. Vane construction.
- 82. Water-motors—
  - 83. Combined types,
  - 84. Endless chain—
    - 85. Float—
      - 86. Guide or deflector,
    - 87. Multiple unit,
    - 88. Double-acting,
    - 89. Guide or deflector,
    - 90. Adjustable motor,
    - 91. Feathering-blades—
      - 92. Positively operated,
    - 93. Adjustable blades,
  - 94. Oscillatory,
  - 95. Reciprocatory,
  - 96. Crank-paddle,
    - 97. Adjustable blades,
  - 98. Rotary—
    - 99. Combined types,
    - 100. Transverse axis—
      - 101. Ebb and flow—
        - 102. Reversible gates,
      - 103. Horizontal—
        - 104. Float—
          - 105. Guide or deflector,
        - 106. Multiple wheels,
        - 107. Guide or deflector,
        - 108. Adjustable wheel,
        - 109. Feathering-blades—
          - 110. Parallel axes,
          - 111. Radial axes,
        - 112. Wheel construction—
          - 113. Buoyant wheel,
        - 114. Float—
          - 115. Guide or deflector,
        - 116. Multiple wheels,
        - 117. Guide or deflector,
        - 118. Adjustable wheel,
        - 119. Feathering-blades,
          - 120. Parallel axes—
            - 121. Positively operated,
          - 122. Radial axes—
            - 123. Positively operated,
        - 124. Adjustable blades,
        - 125. Wheel construction,
      - 126. Parallel axis—
        - 127. Ebb and flow,
        - 128. Float—
          - 129. Guide or deflector,
        - 130. Multiple wheels,
        - 131. Guide or deflector,
        - 132. Adjustable wheel,
        - 133. Adjustable blades,
        - 134. Wheel construction—
          - 135. Trailing wheel.
- 136. Impellers—
  - 137. Endless chain—
    - 138. Buoyant,
    - 139. Feathering-blades
  - 140. Crank-paddle—
    - 141. Paddle-wheel—
      - 142. Buoyant,
      - 143. Feathering-blades—
        - 144. Sliding—
          - 145. Adjustable,
        - 146. Parallel axes—
          - 147. Positively operated—
            - 148. Adjustable,
            - 149. Cam-track,
            - 150. Gearing,
            - 151. Eccentric.
        - 152. Radial axes—
          - 153. Positively operated—
            - 154. Adjustable,
        - 155. Adjustable blades,
      - 156. Screw—
        - 157. Buoyant,
        - 158. Sectional,
        - 159. Projected blades—
          - 160. Adjustable—
            - 161. Flexible,
            - 162. Radially pivoted—
              - 163. Distance-controlled,
            - 164. Transversely pivoted
          - 165. Multiple offset,
          - 166. Inner and outer,
          - 167. Distance-attached,,
          - 168. Peripheral rim,
          - 169. Braces or stays,
          - 170. Flanged,
          - 171. Looped,
          - 172. Perforated,
          - 173. Attachments,
        - 174. Adjustable blades,
        - 175. Spaced or perforated blades,
        - 176. Rims or flanges,
        - 177. Attachments.

171.—ELECTRICITY—GENERATION.
- Batteries—
  - 73. Thermal.
- 23. Friction-generators.
- 95. Galvanometers—
  - 308. Expansion.
- Inductoriums—
  - 123. Transformers, rotary.
- Magneto-electric—
  - Armatures—
    - 205. Disk,
    - 206. Drum,
    - 207. Pole,
    - 208. Ring,
  - 209. Bipolar,
  - 326. Brush-connectors,
  - 324. Brush-holders,
  - 325. Brushes,
  - 322. Collector-rings,
  - 317. Collector traversing mechanism,
  - 323. Combined brushes and holders,
  - 320. Commutators—
    - 321. Radial contact,
  - 118. Connecting devices,
  - 76. Hand-machines,
  - 252. Multipolar,
  - 318. Reverse-movement brush-shifters,
  - 212. Uniform field.
- 34. Meters—
  - 264. Alternating motor—
    - 309. Phase adjustment,
  - 265. Direct motor,
  - 266. Electrolytic,
  - 267. Escapement,
  - 268. Multiple rate,
  - Thermal—
    - 270. Fluid expansion,
    - 271. Hot wire,
  - 272. Time,
  - 273. Variable radius.
- 125. Pyromagneto-electric devices.
- Regulators—
  - 119. Alternating—
    - 241. Compounding,
    - 242. Inductive resistance,
  - 221. Brush adjustment,
  - 222. Circuit interruption,
  - 223. Compound winding,
  - 224. Compounding-machines,
  - 225. Counter-electromotive force,
  - 227. Magnetic reluctance,
  - 228. Reducing sparks,
  - 229. Resistance,
  - 230. Sectional winding,
  - 231. Transmitting mechanism.

171.—ELECTRICITY—GENERATION—Continued.
- Systems—
  - 312. Automatic regulation,
  - 313. Car,
  - 314. Secondary battery.
- 97. Systems of distribution—
  - 316. Anti-electrolysis,
  - 310. Compensating battery—
    - 311. Alternating direct,
  - 254. Transformer-controllers.

172.—ELECTRICITY—MOTIVE POWER.
- 291. Battery systems.
- 15. Dental instruments.
- 285. Electromagnetic guns.
- 152. Elevators.
- 36. Motors—
  - 120. Alternating—
    - 233. Condensers,
    - 280. Polyphase,
    - 274. Regulators,
    - 275. Single phase—
      - 276. Direct-current type,
      - 277. Distorted field,
      - 278. Shifting field,
      - 279. Starters,
  - Automatic starters—
    - 289. Alternating current,
    - 288. Direct current,
  - 179. Hand operating devices,
  - 290. Linear,
  - 286. Railway type,
  - 126. Reciprocating,
  - 287. Wheel.
- 8. Steering and propulsion—
  - 282. Automatic control,
  - 283. Cable control.
- Transmission of power—
  - 237. Alternating,
  - 239. Direct—
    - 284. Magnetic clutches,
  - 281. Frequency-changers,
  - 245. Phase indication,
  - 238. Phase modification,
  - 246. Phase regulation,
  - 240. Reciprocating,
  - 292. Synchronization—
    - 293. Rotary element.

173.—ELECTRICITY—CONDUCTORS.
- 13. Conductors—
  - 81. Anti-inductive,
  - 264. Insulated—
    - 265. Air,
    - 266. Armored—
      - 267. Spiral strip,
    - Joints—
      - 268. Insulated,
    - 367. Take-up.
- 324. Connectors—
  - 259. Binding-posts,
  - 353. Cable-terminals,
  - 327. Ceiling-blocks,
  - 269. Cord-terminals—
    - 322. Strain-relievers,
  - 273. Line-tappers,
  - 326. Pipe-couplers,
  - 328. Quick-detachable—
    - 329. Ceiling-blocks,
    - 338. Fixture—
      - 341. Magnetic support,
      - 339. Perforated plate attached,
      - 340. Pin-conductor tap,
      - 342. Screw,
    - Interposed—
      - 344. Lamp-socket,
      - 343. Two-part plug,
    - 356. Locks and seals,
    - 334. Multiple connections, taps—
      - 335. Lamp-cluster—
        - 337. Alined socket,
        - 336. Switch,
      - 330. Outlet-box and wall-plug—
        - 331. Screw,
      - 361. Plugs,
      - 358. Screw—
        - 359. Plugs—
          - 360. Expansible,
      - 363. Single contact,
      - 357. Socket-adapters,
      - 362. Socket-shells,
      - 332. Strain detachable couplers—
        - 333. Air-pipe,

* See Definitions of Revised Classes.

173.—ELECTRICITY CONDUCTORS—Continued.
- Connectors—Continued.
  - Quick-detachable—Continued.
    - 346. Switch, lamp-socket type—
      - 347. Multiple throw—
        - 348. Rotatable body,
      - 354. Pull-chain,
      - 355. Push,
      - 349. Rotatable body,
      - 350. Rotatable key and contact-block—
        - 351. Screw-base,
        - 352. Rotatable key and facial contact,
    - 262. Rail-bonds—
      - 280. Socket-connected—
        - 282. Rivet and wedge,
        - 281. Riveted,
        - 283. Wedge,
      - Surface-connected—
        - 277. Bolt or clamp,
        - 278. Soldered,
        - 279. Spring-pressed,
    - 263. Wire-splices—
      - 303. Beveled clamp.
  - 28. **Insulators**—
    - 311. Bushings,
    - 312. Cleats,
    - 313. Conductor-holders—
      - 314. Divided insulator,
      - 315. Hooks,
      - 316. Non-allning slots,
      - 317. Twisted slot,
    - 318. High potential,
    - 319. Insulated nails,
    - 320. Insulating fabrics,
    - 365. Pipe and fixture joints, Strain—
      - 366. Compressed insulation,
    - 321. Supports.
  - 31. **Lightning rods.**
  - 244. **Machines for covering.**
  - 251. **Supports and hangers.**

174.—ELECTRICITY—MEDICAL AND SURGICAL.
- 87. **Baths.**
- 88. **Body-wear.**
- 89. **Electrodes.**
- 177. **Medical and surgical—**
  - 172. Chairs and couches,
  - 173. Combs and brushes,
  - 174. Electric soles,
  - 175. Exercising apparatus,
  - 170. Vaporizers.

175.—ELECTRICITY—GENERAL APPLICATIONS.
- 265. **Applications, special—**
  - 311. Biological.
- 353. **Current-amplifiers.**
- 181. **Demagnetizing.**
- 264. **Discharging static charges.**
- 315. **Electrolytic devices—**
  - 316. Cells—
    - 317. Film-electrode—
      - 318. Asymmetric,
    - 319. Interrupters.
- 335. **Electromagnet circuits.**
- 21. **Electromagnets—**
  - 367. Lifting or holding.
- 336. **Electromagnets with armatures—**
  - 338. Alternating current,
  - 345. Armatures,
  - 340. Coil,
  - 337. Compound,
  - 341. Core-armature,
  - 339. Polarized,
  - 344. Reciprocating armature,
  - 372. Retarded.
  - 342. Self-adjustable,
  - 343. Suspended element.
- **Igniting devices—**
  - 115. Automatic,
  - 296. Cigar,
  - 117. Inductional,
  - 116. Manual,
  - 91. Portable.
- 312. **Lamp-dimmer systems.**
- 30. **Lightning-arresters—**
  - 214. Magnetic,
  - 215. Thermal.
- 182. **Ore-detectors.**

175.—ELECTRICITY—GENERAL APPLICATIONS—Continued.
- 351. **Pole-changers—**
  - 352. Automatic.
- 363. **Rectifying—**
  - 364. Mechanical—
    - 365. Vibratory.
- 320. **Relay-circuits.**
- 356. **Stationary induction apparatus—**
  - 362. Coil-sections,
  - 361. Incased,
  - 358. Instrument-transformers,
  - 359. Open-magnetic-circuit type—
    - 360. Incased,
  - 357. With interrupters or condensers.
- **Switchboards—**
  - 300. Details,
  - 298. Miscellaneous,
  - 301. Movable contact—
    - 302. Pivoted arm,
    - 303. Plunger,
  - 369. Panel-board type—
    - 370. Metering,
    - 371. Sectional,
  - 304. Plates,
  - 305. Plates and strips,
  - 306. Strips.
- **Systems—**
  - 373. Circuit interruption,
  - 374. Circuit-restoring,
  - 375. Electromagnetic switching,
  - 294. Safety,
  - 355. Speed-controlled.
- 183. **Testing—**
  - 368. Frequency.
- 354. **Vapor electric devices.**

176.—ELECTRIC LAMPS.*
- 1. **Miscellaneous.**
- **Manufacture and repair—**
  - 2. Exhaustion and gas-charging,
  - 3. Apparatus—
    - 4. Filaments and glowers,
    - 5. Electrodes,
    - 6. Connections,
    - 7. Processes.
- 8. **Systems—**
  - 9. Combined,
  - 10. Incandescent—
    - 11. Pyroelectric,
  - 12. Arc—
    - 13. Liquid electrode.
- 14. **Display.**
- 15. **Arc and incandescent.**
- 16. **Incandescent—**
  - 17. Pyroelectric—
    - 18. Lamp-circuits,
    - 19. Circuit-controlling structure—
      - 20. Automatic,
    - 21. Heaters and glowers—
      - 22. Relatively movable,
    - 23. Transformer-lamps,
    - 24. Automatic switches and cut-outs—
      - 25. Electromagnetic,
    - 26. Multiple-filament lamps—
      - 27. Switch,
    - 28. Electrodes in contact,
    - 29. Double base and tubular,
    - 30. Non-refillable,
    - 31. Locks and seals,
    - 32. Bases, terminals, and bulb-holders—
      - 33. Switch,
    - 34. Reflectors and refractors,
    - 35. Combined seals and connections,
    - 36. Seals—
      - 37. Plug and cap,
    - 38. Connections,
    - 39. Auxiliary filament-support,
    - 40. Filament form.
  - 41. **Arc—**
    - 42. Liquid electrode—
      - 43. Temperature regulation,
      - 44. Protectors,
      - 45. Starting—
        - 46. Combined,
        - 47. Drawing arc—
          - 48. Tilting lamp,
          - 49. Auxiliary electrode,
        - 50. Solid electrode structure and seals,
    - 51. Side-reflector type,

176.—ELECTRIC LAMPS—Continued.
- **Arc—Continued.**
  - 52. Flaming and luminous arc,
  - 53. Alternating current,
  - 54. Automatic auxiliaries,
  - 55. Starting and feeding—
    - 56. Concentric feed-mounting—
      - 57. Inclosed arc,
    - 58. Multiple arc—
      - 59. Simultaneous,
      - 60. Gear brake and detent,
      - 61. Arc-shifting switch—
        - 62. Gear brake and detent,
      - 63. Magazine,
      - 64. Flaming and luminous arc,
      - 65. Inclined and rotary electrodes—
        - 66. Motor,
        - 67. Positive intermittent-grip gear,
      - 68. Special clutch,
      - 69. Gear brake and detent,
      - 70. Consumption-feed,
    - 71. Thermal,
    - 72. Motor—
      - 73. Electric—
        - 74. Motor-circuit control—
          - 75. Automatic switch,
        - 76. Positive intermittent-grip gear,
        - 77. Positive feed-clutch—
          - 78. Separate holding-clutch,
          - 79. Combined feeding and holding clutch,
        - 80. Combined special clutch and operating means—
          - 81. Automatic switch,
          - 82. Ball,
          - 83. Double dog—
            - 84. Magnetic clutch,
            - 85. Automatic switch,
          - 86. Pivot-dog—
            - 87. Automatic switch,
          - 88. Ring—
            - 89. Automatic switch,
          - 90. Magnetic clutch and brake—
            - 91. Expanding core,
          - 92. Automatic switch,
          - 93. Gear-brake—
            - 94. Multiple-armature operated,
            - 95. Automatic switch,
          - 96. Gear-detent—
            - 97. Multiple-armature operated,
            - 98. Automatic switch,
          - 99. Electromagnetic feed—
            - 100. Fluid transmission,
            - 101. Automatic switch,
          - 102. Consumption-feed,
          - 103. Manual,
          - 104. Special starters,
          - 105. Clutches—
            - 106. Double dog,
            - 107. Pivot-dog,
          - 108. Dampers and dash-pots,
        - 109. Stationary electrode,
        - 110. Automatic switches—
          - 111. Consumption cut-outs,
          - 112. Thermal switches and cut-outs,
        - 113. Inclosed arc,
        - 114. Magnets, armatures, and magnet-supports,
        - 115. Cases and frames—
          - 116. Resistances and manual switches,
          - 117. Arc-confining, reflecting,
          - 118. Magnetic influence and deflection of arc,
        - 119. Electrode-holders—
          - 120. Movable contact,
          - 121. Electrode structure.
        - 122. **Gas and vapor—**
          - 123. Luminous electrode,
          - 124. Special current-supply,
          - 125. Gas and vapor admitting,
          - 126. Electrodes, terminals, and seals.
- **Filament and glower compositions—**
  - 127. Carbon-containing,
  - 128. Carbon and salt,
  - 129. Carbon and oxid,
  - 130. Carbon and metal,
  - 131. Non-carbon—
    - 132. Metals and alloys.
- **Electrode compositions—**
  - 133. Carbon-containing,
  - 134. Carbon and oxid or salt,
  - 135. Carbon and metal,
  - 136. Non-carbon.

* See Definitions of Revised Classes.

177.—ELECTRIC SIGNALING.

311. Alarms—
314. Burglar,
315. Hose,
316. Safe.
333. Annunciator systems—
334. Answer-back,
335. Auxiliary,
336. Elevator,
337. Game,
338. Multiple variation—
339. Step by step,
340. Single variation,
341. Station selective—
342. Reed,
343. Step by step—
344. Strength and polarity,
345. Strength and polarity,
324. Target.
325. Annunciators—
326. Auxiliary,
327. Grouped units,
328. Multiple variation—
329. Step by step,
330. Single variation—
331. Circuit-closing,
332. Station-selectors—
7. Step by step.
268. Bells—
352. Electromechanical.
382. Systems—
353. Alarms and extinguishers,
354. Engine-house apparatus,
353. Fire-repeaters,
360. Selective,
367. Signal-box transmission—
366. Circuit maintenance,
379. Composite,
368. Detention devices,
372. Door-controlled,
369. Frangible element,
Local-box-actuating-circuit type,
361. Non-interfering—
363. Key obstruction,
362. Thermal control,
370. Portable box-actuating key—
371. Guards or protectors,
373. Signals at box—
374. Lamp,
375. Return or answer-back,
376. Simultaneous,
377. Transmitters—
378. Make-and-break wheel,
364. Variable signal—
365. Dial,
355. Thermal control,—
356. Composite,
357. Signal-box transmission—
359. Fusible motor release,
358. Local-box-actuating-circuit type,
380. Transmitters—
381. Rotary distributer.
346. Systems, display—
348. Drum and cam operated switch,
350. Form-operated switch,
347. Intermittent, thermal switch,
349. Keyboard-operated.
351. Telemetric.

178.—TELEGRAPHY.*

1. Miscellaneous.
2. Systems—
3. Automatic—
4. Printing.
5. Facsimile—
6. Optical,
7. Photographic recorder,
8. Multiple pen—
9. Lettering—
10. Type-transmitter,
11. Successive line—
12. Pendulum synchronized,
13. Cylinder,
14. Revolving stylus,
15. Photographic recorder,
16. Current-reversing,
17. Transmitters or recorders—
17.5. Storing,
18. Writing—
19. Alternating current,
20. Variable direct current,

178.—TELEGRAPHY—Continued.

Systems—Continued.

21. Stenographic,
22. Secret,
23. Printing—
24. Bulletin,
25. Page—
26. Translators,
27. Selectors,
28. With type-wheel recorder—
29. Recorders,
30. Character elements.
31. Multiple-line circuit—
32. With type-wheel recorder,
33. Selectors—
34. With type-wheel recorder,
35. With type-wheel recorder,
36. Recorders—
37. Secret,
38. With type-wheel—
39. Multiple—
40. Shifting devices,
41. Unisons,
42. Paper guiding or feeding,
43. Space induction,
44. Wave transmission—
45. Loaded circuit—
46. Loading-coils,
47. Harmonic or reed—
48. Recorders and receivers,
49. Superposed current,
50. Multiplex—
51. Resonant,
52. Rotary distributer—
53. Synchronizers,
54. Sextuplex,
55. Quadruplex—
56. Repeating
57. Duplex-diplex,
58. Duplex—
59. Differential,
60. Bridge,
61. Diplex,
62. Chemical,
63. Cable or capacity,
64. Coil-transformer,
65. Dynamo,
66. Alternating current—
67. Modified semicycle,
68. Pulsating current,
69. Line-clearing and circuit maintenance.

70. **Repeaters**—
71. Automatic—
72. Mechanical circuit-retainer,
73. Multiple line.

74. **Circuits**—
75. Manipulating-switch,
76. Retarded closer.

77. **Combined instruments**—
78. Portable sets.

79. **Code-transmitters**—
80. Combined instruments—
81. With typewriter,
82. Automatic dot,
83. Rotary contact—
84. Drum,
85. Oscillating contact,
86. Reciprocating contact,
87. Stylus and tablet.

88. **Receivers**—
89. Code-recorders—
90. Photographic,
91. Siphon,
92. Indenting or perforating,
93. Polarized,
94. Pyrographic,
95. Stop mechanisms,
96. Inking devices,
97. Double-tape movement,
98. Sounders—
99. Secret,
100. Augmenting.

101. **Keys**—
102. Multiple contact,
103. Multiple line,
104. Self-closing,
105. Reversible,
106. Shifting contact-point,
107. Knife-edge pivot,
108. Horizontal swing,
109. Spring-pivot,
110. Finger-buttons.

111. **Tapes**—
112. Perforated.
113. **Codes.**
114. **Instrument-tables.**
115. **Learners' instruments.**

179.—TELEPHONY.*

1. Systems—
2. Composite—
3. Telegraphy—
4. Metallic circuit,
5. Fire or police,
6. Combined telephone and phonograph,
6.3. Check-controlled—
6.4. Check in circuit,
6.5. Check-operated switch,
7. Register—
8. Central—
9. Automatic—
10. Central control,
11. Automatic—
12. Central control,
13. Central control,
14. Key and lock,
15. Multiplex,
16. Automatic—
17. Polystation-lines,
18. Percentage,
19. Lockout—
20. Central energy,
21. Combined rotary and non-rotary,
22. Non-rotary,
23. Central energy,
24. Combined rotary and non-rotary,
25. Non-rotary,
26. Auxiliary automatic exchange,
27. Semi-automatic,
27.5. Selective switches,
28. Polystation-lines—
29. Portable sets,
30. Lockout—
31. Centralized energy—
32. Central,
33. Central,
34. Centralized energy—
35. Central,
36. Central,
37. House or intercommunicating—
38. Lockout—
39. Central energy,
40. Centralized energy,
41. Divided central—
42. Private branch exchange,
43. Reciprocal signaling-trunks,
44. Automatic ringing,
45. Through-ringing—
46. Centralized energy,
47. Multiple switchboard,
48. Multiple switchboard—
49. Centralized energy,
50. Centralized energy,
51. Central—
52. Multiple answering jack,
53. Multiple switchboard—
54. Auxiliary,
55. Centralized energy—
56. Line-signal control—
57. Spring-jack cut-off,
58. Relay cut-off,
59. Plug-terminal—
60. Line-signal control—
61. Spring-jack cut-off,
62. Special test-plug,
63. Special-test plug—
64. Line-signal control—
65. Spring-jack cut-off,
66. Relay cut-off,
67. Line-signal control—
68. Spring-jack cut-off,
69. Relay cut-off,
70. Centralized energy—
71. Line-signal control—
72. Spring-jack cut-off,
73. Relay cut-off,
74. Line-signal control—
75. Spring-jack cut-off,
76. Relay cut-off,
77. Centralized energy,
78. Anti-inductive—
79. Condenser,
80. Impedance,
81. Substation circuits,
82. Space induction,
84. Call—
85. Step by step,
86. Strength and polarity,
87. Reed,
88. Automatic,
89. Return,
90. Transmitters.

*See Definitions of Revised Classes.

179.—TELEPHONY—Continued.
91. Switchboards—
92. Drop-restorers,
93. Plug-shifters,
94. Lamp-annunciators,
95. Plug-seats, switches, and take-ups,
96. Spring-jack—
97. Strips,
98. Wire distribution,
99. Substation.
100. Sets.
100.1. Telegraphophones—
100.2. Magnetic.
101. Telephones—
102. Combined receiver and transmitter—
103. Hand,
104. Micromagnetic,
105. Compound,
106. Condenser,
107. Audiphones,
108. Intensifiers—
109. Harmonic vibrators,
110. Molecular,
111. Electrostatic,
112. Induction-coil,
113. Non-diaphragm,
114. Magnetic—
115. Diaphragm—
116. Multiple,
117. Magnets—
118. Combined telephone and call,
119. Pole-pieces,
120. Tubular.
121. Transmitters—
122. Granular—
123. Multiple diaphragm,
124. Electrode—
125. Embedded,
126. Plunger,
127. Pockets,
128. Projections,
129. Rotary,
130. Granules magnetic,
131. Multiple electrode—
132. Multiple diaphragm,
133. Fluid—
134. Jet,
135. Differential,
136. Multiple series contact,
137. Multiple contact,
138. Diaphragm—
139. Multiple,
140. Electrode—
141. Contact—
142. Gravity—
143. Hinged or pivoted,
144. Magnetic,
145. Spring.
146. Supports—
147. Stands,
148. Vertical adjustment,
149. Pivoted arm—
150. Extension,
151. Slidable holders,
152. Transmitter,
153. Holder, transmitter-supported,
154. Suspension—
155. Reels,
156. Head-gear,
157. Body,
158. Switches—
159. Hook—
160. Selective line,
161. Obstruction—
162. Movable jaw,
163. Horizontal slide,
164. Gravity-lever,
165. Vertical slide,
166. Connectors,
167. Receiver,
168. Mobile,
169. Rotary contact.
170. Repeaters.
171. Relays.
172. Induction-coils—
173. Multiple.
174. Anti-induction devices.
175. Testing devices.
176. Listening and ringing keys—
177. Polystation-lines.
178. Details—
179. Casing,
180. Dampers,
181. Diaphragms,
182. Earpieces,
183. Hoods,
184. Protectors—
185. Antiseptic,
186. Connections,

179.—TELEPHONY—Continued.
Details—Continued.
187. Mouthpieces—
188. Voice-screens,
189. Locks,
190. Resistance elements.

180.—MOTOR-VEHICLES.*
1. Miscellaneous.
2. Motor supplied from external source.
3. Sleds—
4. Stepper,
5. Traction-belt,
6. Traction-wheel
7. Special driving device—
8. Stepper,
9. Portable track—
10. Annular.
11. Motor-carrying attachments—
12. Driven-steering-wheel type—
13. Single wheel.
14. Vehicle-trains.
15. Additional traction-wheel.
16. Traction-wheel attachments.
17. Steering by driving.
18. Compensating by steering.
19. Steered by walking attendant.
20. With rollers.
21. Special wheel-base—
22. Five or more wheels—
23. Driven-steering-wheel type—
24. Stub-axle type,
25. Three-wheeled—
26. Driven-steering-wheel type,
27. Two parallel wheels driven—
28. Steam traction-engines,
29. Two-wheeled—
30. Tandem—
31. Driven-steering-wheel type,
32. Spring-frame,
33. Power—
34. Electric,
35. Frame-receptacle.
36. Steam traction-engines—
37. Driven-steering-wheel type—
38. Four wheels driven,
39. With boiler-leveler,
40. Spring mounted on axle.
41. With leveling device.
42. Driven-steering-wheel type—
43. Stub-axle type—
44. Four wheels driven—
45. Four steering-wheels—
46. Pivot in wheel-plane,
47. Pivot in wheel-plane,
48. Pivot in wheel-plane,
49. Four wheels driven—
50. Four steering-wheels,
51. Motor swinging with axle,
52. Motor swinging with axle.
53. Motor as source of external power.
54. Power—
55. On lower running-gear—
56. Rear axle and body—
57. Longitudinal shaft,
58. Frame—
59. Pivoted support on axle,
60. Electric,
61. Pivoted support on axle,
62. Rear axle,
63. Motor moved by axle,
64. Motor-mounting on body-frame,
65. Electric,
66. Fluid-pressure—
67. Steam,
68. Radiators and condensers, mounting,
69. Hoods.
70. Transmission mechanism—
71. Final drive, axle movable—
72. Chain,
73. Shaft,
74. Tire directly driven,
75. Rear axle.
76. Compensating devices.
77. Controlling devices—
78. Steering-shaft.
79. Steering-gear—
80. Power -
81. Swinging axle.
82. Safety devices -
83. Fender and buffer actuated.
84. Dust-guards.

* See Definitions of Revised Classes.

180.—MOTOR-VEHICLES—Continued.
85. Running-gear—
86. Body-frames,
87. Underframes, parallel axles,
88. Rear axles.
89. Bodies—
90. Dashboards.

181.—ACOUSTICS.*
0.5. Miscellaneous.
26. Sound-locating devices.
29. Mechanical telephones.
Speaking-tubes—
18. Systems,
19. Alarms and indicators,
20. Combined mouth and ear pieces,
21. Mouthpieces,
22. Tubes.
24. Stethoscopes.
25. Ear-trumpets.
23. Auricles.
27. Megaphones.
28. Dentiphones.
30. Auditorium.
31. Diaphragms and mountings.
32. Diaphragms.

182.—SEWERAGE.
9. Animal-stops.
2. Cleaning.
3. Construction.
4. Flushing.
10. Manholes, catch-basins, and cesspools.
7. Systems.
Traps—
11. Air-valves,
12. Liquid seal—
15. Air-port,
13. Pipe-inlet,
14. Valve-seal.

183.—GAS SEPARATION.*
1. Miscellaneous.
2. Separating gases from gases.
3. With liquid separation.
4. Absorbent.
5. Gas treatment.
6. Combustion.
7. Electrical.
8. Liquid treatment—
9. With filtration—
10. Subsequent—
11. Heat-exchanging,
12. Unitary structure—
13. Fluid distribution—
14. Superposed filter,
15. Superposed filter,
16. Fluid distribution,
17. Preliminary—
18. Heat-exchanging,
19. Unitary structure,
20. Fluid distribution,
21. With deflection—
22. Subsequent—
23. Heat-exchanging,
24. Unitary structure—
25. Fluid distribution—
26. Liquid-circuit,
27. Fluid distribution,
28. Preliminary—
29. Heat-exchanging,
30. Unitary structure,
31. Fluid distribution.
32. Thermal.
33. Fluid distribution—
34. Systems,
35. Impelling—
36. Inlet,
37. Gas-outlet,
38. Residue-outlet,
39. Valved—
40. Inlet,
41. Gas-outlet,
42. Residue-outlet,
43. Conducting.

183.—GAS SEPARATION—Continued.
44. Filtration—
45. Loose material—
46. Renewing,
47. Compressing,
48. Flow control,
49. Supporting—
50. Trays,
51. Reticulated screen—
52. Cleaning—
53. With cut-off—
54. Shaking,
55. Jarring,
56. Brushing,
57. Pneumatic,
58. Shaking,
59. Jarring,
60. Brushing,
61. Pneumatic,
62. Movable—
63. Rotatable—
64. Vaned,
65. Flow control—
66. Inlet and residue,
67. Inlet,
68. Residue,
69. Layered,
70. Multiple,
71. Zigzag,
72. Conical,
73. Cylindrical,
74. Transverse.
75. Deflection—
76. Deflector-cleaning,
77. Rotatable deflector—
78. Wind-vane,
79. Curved passage,
80. Vortical whirl—
81. Vertical—
82. Tangential inlet—
83. Upflow-outlet—
84. Supplemental chamber,
85. Residue-flow control,
86. Adjustable deflector,
87. Vaned deflector,
88. Curved deflector,
89. Conical deflector,
90. Horizontal inlet,
91. Upflow-inlet,
92. Downflow-inlet,
93. Upflow-inlet—
94. Upflow-outlet—
95. Residue-flow control,
96. Perforated deflector—
97. Reticulated,
98. Grid,
99. Oblique deflector,
100. Tubular deflector,
101. Adjustable deflector,
102. Spiral deflector,
103. Conical deflector—
104. Ribbed,
105. Downflow-inlet—
106. Upflow-outlet,
107. Downflow-outlet,
108. Horizontal inlet—
109. Upflow-outlet,
110. Horizontal outlet—
111. Residue-flow control,
112. Perforated deflector,
113. Ribbed deflector.
114. Processes—
115. Separating gases from gases,
116. Chemical—
117. Liquid material,
118. Solid material,
119. Thermal—
120. With liquid treatment,
121. Liquid treatment,
122. Filtration or deflection.

184.—LUBRICATION.*
1. Miscellaneous.
2. Mine-car lubrication.
3. Track or wheel lubrication.
4. Windmill lubrication.
5. Slide-bearing lubrication.
6. Systems—
7. Conveying devices—
8. Continuous tube,
9. Sliding tube
10. Wipers,
11. Splash.
12. Conveyers.
13. Splash.
14. Lubricators—
15. Belt, cable, or chain lubricators—
16. Swab-applied,
17. Roller-applied,

184.—LUBRICATION—Continued.
Lubricators—Continued.
18. Cylinder-lubricators—
19. Swab-applied,
20. Rotary-swab applied,
21. Elevator-guide lubricators—
22. Swab,
23. Rotary brush or roller,
24. Piston-rod lubricators—
25. Swab,
Force-feed—
26. Pumps—
27. Mechanically operated,
28. Hand-operated,
29. Fluid-operated,
30. Pendulum-operated,
31. Rotary,
32. Oscillating piston,
33. Rotary piston and valve,
34. Oscillating distributing-valve,
35. Rotary distributing-valve,
36. Attachments,
Followers—
37. Mechanically operated,
38. Hand-operated,
39. Fluid-operated—
40. Fluid return,
41. Spring-assisted,
42. Spring return,
43. Centrifugal,
44. Pendulum-operated,
45. Spring-operated,
46. Weight-operated,
47. Balanced piston,
48. Locking devices,
Fluid-operated—
49. Condensation displacement—
50. Double passage,
51. Single passage,
52. Choke-plugs,
53. Auxiliary feeding-receptacles,
54. Displacement,
55. Steam or air—
56. Injectors,
57. Initial pressure,
58. Suction—
59. Vented,
60. Abrasion,
61. Conveyers—
62. Bucket—
63. Rotary,
64. Capillary attraction,
65. Gravity-feed—
66. Automatic cut-off,
67. Electrically operated,
68. Thermostats,
69. Vibrators,
70. Centrifugal,
Rotatable valve—
71. Mechanically operated,
72. Fluid-pressure operated,
73. Pendulum-operated,
Vertically-reciprocating valve—
74. Mechanically operated—
75. Spring-retained,
76. Fluid-pressure operated,
77. Centrifugally operated,
78. Pendulum-operated,
79. Horizontally-reciprocating valve,
80. Combined closure and valve,
81. Multiple feed,
82. Vertically-movable valve,
83. Measuring-valve,
84. Air-tight receptacle,
85. Siphons,
86. Locking-valve,
87. Fiber valve,
88. Oil-cup closures—
89. Depressible cap,
90. Hinged cover—
91. Spring-controlled,
92. Rotatable cover—
93. Spring-controlled
94. Slidable cover—
95. Spring-controlled,
96. Sight-feeds—
97. Attachments,
98. Liquefiers—
99. Solid stick,
100. Slide-bearing lubricators,
101. Roller,
102. Swab,
103. Constant level,
104. Heating and cooling devices,
105. Refilling devices,
106. Drip-pans.

185.—MOTORS.*
1. Miscellaneous.
2. Composite—
3. Horse-power type,
4. Weight—
5. Escapement-controlled,
6. Winding—
7. Motor,
9. Spring—
10. Winding—
11. Motor—
12. Momentum type,
13. Overwinding-preventers,
14. Indicator.
15. Horse-power type.
16. Belt-tread,
17. Drum,
18. Disk,
19. Sweep—
20. Driving and whipping devices,
21. Sweeps—
22. Equalizers,
23. Draft devices,
24. Driving and whipping devices,
25. Anchors.
26. Pivoted seat.
27. Weight—
28. Operator,
29. Oscillating—
30. Wave type,
31. Escapement-controlled,
32. Winding—
33. Motor,
35. Overwinding-preventers,
36. Indicator.
37. Spring—
38. Escapement-controlled,
39. Winding—
40. Motor—
41. Momentum type,
43. Overwinding-preventers,
44. Indicator,
45. Spring-mounting.
46. Escapements.

186.—STORE-SERVICE.*
1. Dining-room service.
2. Gravity systems—
3. Selective delivery,
4. Tilting track—
5. Both ends movable—
6. Pivoted arms.
7. Self-propelled-car systems.
8. Single-impulse systems—
9. Speed-increasing,
10. Spring—
11. Longitudinally-moving line,
12. Gravity,
13. Spreaders.
14. Cable-propulsion systems—
15. Grip, selective release,
16. Load release,
17. Reciprocating—
18. Drop-car.
19. Switches—
20. Selective—
21. Carrier-returned.
22. Elevators and drops—
23. Speed-controlled drop.
24. Buffers—
25. Slide.
26. Carriers—
27. Wheeled—
28. Self-propelled,
29. Drop-receptacle,
30. Derailment-guards,
31. Rolling,
32. Sliding.
33. Details—
34. Track.

187.—ELEVATORS.*
1. Miscellaneous.
2. Building material.
3. Dumb-waiter type—
4. Mail,
5. Locked car.
6. Exterior wall—
7. Lateral movement,
8. Car-brake.
9. Portable—
9.5. Wagon-dump type,
10. Inclined,
11. Winding-drum.

* See Definitions of Revised Classes.

187.—**ELEVATORS**—Continued.
- 12. **Inclined**—
- 13. Cable-controlled brakes—
- 14. Rail-gripping.
- 15. **Shiftable weight.**
- 16. **Superposed cars.**
- 17. **Motor mechanism**—
- 18. Lazy-tongs,
- 19. Rack and pinion,
- 20. Rope drive—
- 21. Hand-rope operated,
- 22. Tensioning feature,
- 23. Differential sheave,
- 24. Screw—
- 25. Traveling rotary element,
- 26. Traveling sheave,
- 27. Winding-drum.
- 28. **Control mechanism**—
- 30. Door-actuated—
- 31. Electric,
- 32. Landing-stops—
- 33. Lock,
- 34. Limit—
- 35. Electric,
- 36. Carrier-actuated—
- 37. Deflected rope,
- 38. Speed-controlled—
- 39. Electric,
- 40. Well obstruction—
- 41. Electric,
- 42. Operator-actuated—
- 43. Electric,
- 44. Rope-controllers—
- 45. Running rope,
- 46. Controller-locks—
- 47. Door-actuated—
- 48. Electric,
- 49. Locked door—
- 50. Electric,
- 29. Electric.
- 51. **Door mechanism**—
- 52. Motor-actuated—
- 53. Common motor-shaft,
- 54. Separate motors,
- 55. Flexible screens,
- 56. Sliding doors—
- 57. Locked door,
- 58. Vertical movement—
- 59. Locked door,
- 60. Sliding coupler,
- 61. Locks.
- 62. **Hatch mechanism**—
- 63. Lever-opener,
- 64. Sliding coupler,
- 65. Direct contact,
- 66. Vertically-slidable hatch.
- 67. **Well-end cushions.**
- 68. **Fluid-governors**—
- 69. Car-supported pump,
- 70. Counterweight.
- 71. **Emergency-cables.**
- 72. **Cable-releasers.**
- 73. **Car brakes and catches**—
- 74. Door-controlled,
- 75. Landing-chairs—
- 76. Car-supported,
- 77. Driven catch devices—
- 78. Rotating gear,
- 79. Well-supported,
- 80. Car-supported—
- 81. Cable-controlled—
- 82. Positive—
- 83. Rail side,
- 84. Sliding,
- 85. Rail face,
- 86. Rail side—
- 87. Eccentric,
- 88. Wedge,
- 89. Speed-controlled—
- 90. Rail side—
- 91. Vertically pivoted,
- 92. Operator-controlled—
- 93. Rail side.
- 94. **Counterbalances.**
- 95. **Guides**—
- 96. Mine cross-heads.
- 97. **Railway-car locks.**
- 98. **Well-obstruction devices.**

188.—**RAILWAY-BRAKES.**
- 16. **Automatic**—
- 17. Drawbar-actuated—
- 19. Centrifugal governor,
- 18. Winding,
- 20. Push-rod actuated—
- 21. Winding.
- 22. **Beams.**
- 23. **Brake-flange on wheel.**

188.—**RAILWAY-BRAKES**—Continued.
- 25. **Brake-shoes**—
- 82. Back-stiffeners,
- 26. Chills,
- 27. Composite faces,
- 28. Fasteners,
- 29. Non-metallic,
- 30. Rail,
- 31. Recessed faces,
- 69. Roller.
- 24. **Brakes.**
- 32. **Conduit-slot.**
- **Disk on axle**—
- 33. Brake-band,
- 34. Peripheral shoes,
- 35. Side shoes.
- 36. **Electric**—
- Magnetic clutch—
- 37. Winding-drum,
- 38. Magnetic shoes,
- 39. Solenoid-operated.
- **Fluid-pressure**—
- 1. Automatic,
- 9. Brake-piston indicators,
- 10. Brake-release valves,
- 3. Direct,
- 4. Electric,
- 7. Engineers' valves,
- 11. Load-regulated valves,
- 5. Momentum-pump—
- 71. Governors,
- 12. Pressure-retainers,
- 83. Signals,
- 72. Speed-controlled,
- 73. Strainers and drain-cups,
- 14. Train-pipe release-valves,
- 8. Train-pipe stopcocks,
- 15. Triple valves,
- 6. Vacuum.
- 40. **Hand-levers**—
- 41. Ratchet-drum,
- 42. Ratchet-segment.
- 70. **Hangers**—
- 84. Non-chattering.
- 43. **Load-regulated.**
- **Locomotive**—
- 44. Connected series,
- 45. Shoes between drivers.
- 46. **Positive lock.**
- 47. **Rail**—
- 48. Grippers—
- 74. Automatic,
- 75. Rotary.
- 76. **Safety-catches.**
- 77. **Setting devices.**
- 49. **Slack-adjusters**—
- 50. Ratchet-bar,
- 51. Ratchet-driven screw.
- 52. **Staffs**—
- 53. Friction-clutch handles,
- 54. Geared,
- 55. Locking-ratchets,
- 56. Ratchet-handles—
- 57. Pivoted,
- 58. Screw,
- 59. Winding attachments.
- 60. **Top shoes.**
- 61. **Train-operated**—
- 62. Rotary shafts,
- 63. Winding.
- 64. **Wheel and rail**—
- 65. Chock-block.
- **Winding**—
- 66. Pneumatic shift.
- 67. **Winding-axle.**
- 68. **Winding-drum.**

189.—**METALLIC BUILDING STRUCTURES.***
- 1. **Buildings**—
- 3. Bins,
- 4. Greenhouses,
- 5. Jails—
- 6. Rotary,
- Doors—
- 7. Boltwork—
- 8. With indicators,
- 9. Gratings—
- 10. Connections,
- 2. Portable.
- 11. **Portable towers.**
- 12. **Skeleton towers**—
- 13. Arrangement—
- 17. Tanks,
- 18. Windmills,
- 16. Derricks,
- 14. Elevating,
- 15. Tilting,
- 19. Structure,

189.—**METALLIC BUILDING STRUCTURES**—Continued.
- **Skeleton towers**—Continued.
- Details—
- 20. Brace adjustments,
- 21. Caps and bases.
- 21.1. **Monuments, markers, and guards**—
- 21.2. Monuments,
- 21.3. Markers.
- 22. **Electric-wire supports.**
- 23. **Poles and posts**—
- 24. Compound,
- 25. Multiple supports,
- 26. Sectional,
- 27. Insulated parts,
- 28. Bases—
- 29. Anchored—
- 30. Auger,
- 30.5. Key-locked,
- 31. Expanding,
- 31.1. Braced—
- 31.2. Compound,
- 31.3. Truss,
- 31.4. Strut,
- 31.5. Tie,
- 32. Protectors,
- 33. Cross-arms.
- 90. **Land-anchors**—
- 91. Augers,
- 92. Expanding.
- 80. **Fire-shields**—
- 81. Collapsible.
- 43. **Stairs**—
- 44. Spiral.
- 46. **Doors**—
- 52. Theater-curtains,
- Thermal control—
- 47. Horizontally sliding,
- 48. Vertically sliding,
- 49. Horizontally swinging,
- 50. Vertically swinging,
- 51. Sectional,
- 53. Panels.
- 64. **Windows**—
- 65. Weatherproofing,
- 66. Double movement—
- 67. Sliding pivot,
- 68. Swinging frame,
- 69. Swinging sash—
- 70. Laterally-sliding weather-strips,
- 71. Thermal control,
- 72. Vertically-sliding sash—
- 73. Movable or removable guards,
- 74. Thermal control,
- 75. Frames,
- 76. Sash—
- 77. Pane supports and fastenings—
- 78. Removable,
- 79. Guards.
- 54. **Shutters**—
- 55. Awnings,
- 56. Roll—
- 57. Operating devices,
- 58. Thermal control,
- 61. Registering slide,
- 59. Horizontally sliding,
- 60. Vertically sliding,
- Slats—
- 62. Pivoted,
- 63. Fixed.
- 45. **Thermally-controlled devices.**
- **Grilles**—
- 82. Composite,
- 83. Integral,
- 84. Securing devices.
- 37. **Girders.**
- 38. **Columns**—
- 39. Compound,
- 40. Wood and metal,
- 41. Shapes,
- 42. Caps and bases.
- 85. **Metal sheathing**—
- 86. Overlapping ends—
- 87. Cornice,
- 88. Securing devices—
- 89. Cornice.
- 34. **Structural units**—
- 35. Clips or fasteners,
- 36. Joints and connections.

190.—**BAGGAGE.***
- 1. **Convertible**—
- 2. Bed,
- 3. Bureau—
- 4. Top and front opening—
- 5. Compartment-top,
- 6. Front-opening—
- 7. Compartment-front,

* See Definitions of Revised Classes.

190.—**BAGGAGE**—Continued.
Convertible—Continued.
8. Chair,
9. Shelved—
10. Desk-flap,
11. Desk or table—
12. Camp kits,
13. Wardrobe—
14. Extensible—
15. Telescopic.
16. **Sample-cases**—
17. Link-supported tray.
19. **Trunks**—
20. Circular end,
21. Extensible and sectional—
22. Telescopic,
23. Wall,
24. Frames and interior braces,
25. Reinforcing-strips,
26. Protecting-harness,
27. Harness,
28. Valances,
29. Tray movers and supporters—
30. Lid-operated, movement,
31. Pivoted tray—
32. Vertical pivot,
33. Sliding tray,
34. Link connections and props,
35. Trays,
36. Followers,
37. Corner shields and buffers,
38. Supporting devices,
39. Handles,
40. Materials.
41. **Traveling-bags**—
42. Combined,
43. Frameless and folding,
44. Extensible—
45. Telescopic—
46. Auxiliary opening,
47. Rack-fastener,
48. Top-opening,
49. Frames—
50. Stays,
51. Compartments and partitions—
52. Exterior and auxiliary,
53. Materials and patterns,
54. Frame and bag leather joints,
55. Bag-fastening handles,
56. Lock-plate handle-fastenings,
57. Handles—
58. Fasteners,
59. Strap-loop fasteners,
60. Article-attachers,
61. Safety-attachers.

191.—**ELECTRICITY—TRANSMISSION TO VEHICLES.***
1. **Miscellaneous.**
Systems of distribution—
Convertible, multiple current-source—
Internal and external,
Alternating direct,
Sectional,
Alternating-alternating,
Safety cut-out.
Drawbridge and transfer-table.
Magnetic induction.
Vehicle in series.
Flexible extensions.
Plate-conductor.
Sectional conductor—
Normally-live section,
Normally-dead section—
Magneto-mechanical circuit-controller,
Magnetic circuit-controller—
Magnet on vehicle—
Traveling controller,
Mechanical circuit-controller—
Deformable conductor.
Conductors—
Conduit—
Asymmetric,
Closing,
Draining,
Heated,
Special modifications,
Third rail—
Protected—
Closing,
Supports,
Trolley—
Non-underrunning,
Guarded,

191.—**ELECTRICITY—TRANSMISSION TO VEHICLES**—Continued.
Conductors—Continued.
Trolley—Continued.
36. Special intersections,
37. Crossings,
38. Switches,
39. Section-insulators,
40. Supports—
41. Catenary,
42. Combined ears and insulators,
43. Ears—
44. Splices.
45. **Collectors**—
46. Convertible,
47. Bar,
48. Conduit-plow,
49. Third-rail shoe,
50. Trolley—
51. Common wire passing,
52. Detachable,
53. Non-underrunning,
54. Indefinite path—
55. Bow,
56. Roller,
57. Multiple contact—
58. Tandem,
59. Heads—
60. Swivel,
61. Wheel to head contactor,
62. Ice clearers or preventers,
63. Wheels,
64. Poles—
65. Frame,
66. Stands—
67 Fluid-pressure erector,
68. Spring-erector—
69. Torsion,
70. Tension or compression,
71. Rope-protectors,
72. Guards and finders—
73. Constantly operative—
74. Fixed,
75. Spiral-cam replacer,
76. Star-wheel,
77. Normally operative—
78. Automatic,
79. Rope-retracted—
80. Lateral swing,
81. Longitudinal swing,
82. Normally inoperative—
83. Automatic,
84. Rope-actuated,
85. Trolley-retrievers—
86. Erector release—
87. Fluid-pressure erector,
88. Spring-erector—
89. Toggle,
90. Fluid-pressure retracted,
91. Spring-retracted—
92. Rope-actuated—
93. Slack-take-up.
94. Weight-retracted,
95. Non-retracting trolley-stops.

192.—**CLUTCHES.**
22. **Ball.**
1. **Clutches.**
21. **Dog.**
2. **Eccentric or wedge.**
3. **Expansible segment.**
18. **Fluid.**
4. **Frictional and positive.**
5. **Lever-shoe.**
6. **Locking-pawl.**
7. **Longitudinally movable, double face.**
8. **Longitudinally movable, single face.**
9. **Longitudinally movable, with projections.**
10 **Multiple disk.**
11. **Radially-movable shoes.**
12. **Radially-movable shoes, opposing.**
20. **Ratchet.**
13. **Split ring.**
14. **Strap.**

193.—**CONVEYERS.**
29. **Chutes**—
34. Car-side type,
35. Counterweighted—
36. Equalizers,

193.—**CONVEYERS**—Continued.
Chutes—Continued.
40. Extensible,
41. Flexible,
32. Garbage,
45. Gates—
46. Pivoted,
53. Hay-distributer type,
39. Horizontally swinging,
38. Laterally movable,
31. Mail,
42. Spiral,
44. Switches,
54. Tilting,
37. Variable-elevation discharge,
33. Wall type,
43. Zigzag.
Combined types—
52. Endless or rotary and roller-way,
51. Endless or rotary and screw,
48. Endless or rotary carrier and reciprocating carrier—
49. Loading-machine type,
50. Reciprocating carrier and roller-way.
1. **Conveyers.**
2. **Endless**—
3. Adjustable leg,
4. Belt—
26. Belt structure,
24. Feeders,
23. Guides,
25. Trippers,
27. Troughing-rollers,
5. Boot,
6. Bucket—
28. Bucket structure,
7. Bucket, with traction-rollers,
8. Flight,
9. Hook,
63. Stairway type.
47. **Magnetic.**
10. **Pneumatic**—
21. Stackers.
62. **Reciprocating bar.**
12. **Retransfer and weighing.**
55. **Roller**—
56. Horizontally swinging.
13. **Screw.**
22. **Spouts.**
57. **Step by step**—
58. Reciprocating bar—
59. Coacting catch,
60. Interfingered sections,
61. Vibrating trough.
20. **Storehouse.**
14. **Thresher attachments**—
15. Foldable,
16. Laterally and vertically adjustable,
17. Oscillatory,
18. Vertically adjustable.
19. **Trimmers.**

194.—**CHECK-CONTROLLED APPARATUS.***
1. **Miscellaneous.**
4. **Anomalous check**—
Fluid-delivery.
5. **Check in circuit**—
6. Article-delivery,
7. Signal.
8. **Check-operated switch**—
9. Article-delivery,
10. Electric meters,
11. Exhibitors,
12. Fluid-delivery,
13. Induction-coils,
14. Phonographs,
15. Signal.
16. **Lock-releasing**—
17. Gravity—
18. Forwardly-turning released part—
19. Measuring instruments—
20. Scales,
21. Article-delivery—
22. Chance,
23. Endless carrier—
24. Magazine,
25. Rotary feed,
26. Sliding pusher,
27. Exhibitors,
28. Fluid-delivery,
29. Game apparatus,
30. Phonographs,

* See Definitions of Revised Classes.

194.—CHECK-CONTROLLED APPARATUS—Continued.
Lock-releasing—Continued.
Gravity—Continued.
32. Reciprocating released part—
33. Measuring instruments—
34. Pull-testers,
35. Scales,
36. Strike-testers,
37. Article-delivery—
38. Endless carrier,
39. Sliding pusher,
40. Article-securing stands,
41. Chance and game apparatus,
42. Exhibitors,
43. Fluid-delivery,
44. Telephones,
45. Reset turning released part—
46. Measuring instruments—
47. Scales,
48. Article-delivery,
49. Article-securing stands,
50. Chance and game apparatus,
51. Door and lid locks,
52. Exhibitors,
53. Fluid-delivery,
Thrust—
54. Pivoted detent—
55. Reciprocating coin-mover—
56. Measuring instruments,
57. Article-delivery—
58. Sliding pusher,
59. Door and lid locks,
60. Fluid-delivery,
61. Turning coin-mover—
62. Measuring instruments,
63. Article-delivery,
64. Article-securing stands,
65. Door and lid locks,
66. Fluid-delivery,
71. Article-delivery,
67. Reciprocating detent—
68. Article-delivery,
69. Reciprocating coin-mover,
70. Turning coin-mover.
72. Connectors—
73. Gravity,
Check—
74. Reciprocating and turning parts—
75. Article-delivery,
76. Chance and game apparatus,
77. Fluid-delivery,
78. Reciprocating parts—
79. Article-delivery—
80. Sliding pusher,
81. Chance and game apparatus,
82. Fluid-delivery,
83. Turning parts—
84. Concentric—
85. Article-delivery,
86. Chance and game apparatus.
87. Fluid-delivery,
88. Article-delivery,
89. Chance and game apparatus,
90. Fluid-delivery,
91. Article-delivery.
92. Lock-preventing—
93. Article-delivery.
94. Check-rotated wheel.
95. Shutter.
96. Check-engaged alarm.
97. Fraud-preventives—
98. Check-exhibitors,
99. Combined size and material testers,
100. Material-testers—
101. Magnets,
102. Size-testers,
103. Weight-testers.
2. Miscellaneous, article-delivery.
3. Miscellaneous, fluid-delivery.

195.—ALCOHOL.
1. Beer—
4. Preserving—
5. Pasteurizing,
2. Purifying—
3. Finings and shavings.

196.—ALCOHOL—Continued.
6. Distilled spirits—
Aging—
7. Apparatus—
9. Rocking racks,
10. Processes,
11. Apparatus—
12. Stills—
13. Columns,
14. Doublers and worms,
16. Vapor-filters,
15. Rectifying processes.
Fermenting—
17. Apparatus—
18. Vats,
19. Vent-bungs,
20. Processes.
Malting—
21. Apparatus—
22. Cylinders, rotary,
23. Malt-stirrers,
24. Processes.
Mashing—
25. Apparatus—
26. Digesters and disintegrators,
27. Fore-mashers,
28. Mash-tubs—
29. Rakes,
30. Tubular rakes,
31. Hops,
32. Processes,
33. Wort—
34. Hopping,
35. Purifying.
36. Wines.

196.—MINERAL OILS.
1. Apparatus—
2. Reducing gravity,
3. Stills—
6. Bottoms,
5. Condensers,
7. Feeders,
8. Films,
9. Furnaces and flues,
10. Heads,
11. Jackets,
12. Rotary,
13. Series,
4. Stirrers and scrapers,
18. Supplementary heating,
14. Tubular,
15. Utilizing gases and residue,
16. Vacuum,
17. Vapor-outlets.
Coal-oil—
21. Processes,
19. Retorts—
20. Rotary.
22. Compositions.
24. Paraffin.
25. Processes—
26. Chemical,
27. Injecting gases,
28. Residuum,
29. Washing and filtering.

197.—TYPEWRITING-MACHINES.*
1. Miscellaneous.
5. Double.
2. Book—
3. Work-supports.
4. Cryptographic.
7. Logotype.
8. Music.
9. Stenographic.
6. Embossing or penetrating—
6.1. Point-printers for the blind,
6.2. Movable font-carrier—
6.3. Electrical,
6.4. Rotary—
6.5. Keyboard—
6.6. Separately-striking character,
6.7. Separately-striking character.
10. Annular printer.
11. Permutation.
Power-driven—
12. Electric—
13. Bar—
14. Selectors,
15. Pneumatic,
16. Mechanical—
17. Bar,
18. Rotating wheel.

197.—TYPEWRITING-MACHINES—Continued.
19. Machine-operators—
20. Perforated tape.
21. Bar—
23. Hammer,
Inking—
24. Traveling pivot,
25. Thrust,
22. Front strike,
26. Top strike,
27. Actions—
28. Accelerating,
29. Disconnecting,
30. Toggle,
31. Bar-locks,
32. Links,
33. Returning-springs,
34. Starters,
35. Bars—
36. Heads—
37. Pivoted,
38. Bearings—
39. Roller,
40. Dust-guards,
41. Hanger-supports,
42. Rests,
43. Type-guides.
44. Index-wheel—
45. Platen-striking,
46. Striking letter,
47. Wheel-striking.
48. Key-wheel—
49. Hammer,
52. Spherical,
50. Helical shift,
51. Platen-striking,
53. Striking letter—
54. Flexible plate,
55. Wheel-striking.
56. Plate—
57. Flexible,
58. Rectilinear,
59. Rotary.
60. Carriages—
61. Rocker-platen,
62. Driving-springs,
63. Margin-regulators,
64. Retarders,
65. Returns—
66. Electrical,
67. Pneumatic,
68. Spring,
69. Roller-bearings,
70. Stops.
71. Case-shifts—
72. Double shift,
Platen—
73. Vertical shift,
Type-bar—
74. Hanger-support,
75. Pivoted head,
76. Rotatable head,
77. Selectors,
78. Key attachments,
79. Platen-lock—
80. Key-lever,
81. Stops.
82. Feed mechanism—
83. Silent key,
84. Variable spacing,
90. Screw-feed,
Escapement—
85. Parallel pawls,
86. Single pawl,
Transverse—
87. Pawls,
88. Limber pawl,
89. Force-feed,
91. Back-spacers,
92. Releases—
93. Clutch,
94. Pawl,
95. Pinion,
96. Rack,
97. Universal bars.
98. Keyboards—
99. Permutation,
100. Key arrangement,
101. Hand-guides,
102. Key caps and stems—
103. Cushion-caps,
104. Rotatable caps,
105. Screens.
106. Key-levers.
107. Key-locks.
108. Line-locks—
109. Escapement,
110. Key-lever,
111. Type-bar,
112. Universal bar.
113. Liners.
114. Line-spacing—
115. Combined space and release,

*See Definitions of Revised Classes.

197.—TYPEWRITING-MACHINES—Continued.
Line-spacing—Continued.
116. Condensed billing—
117. Lever-operated,
118. Traveling stop,
119. Indicating-scales,
120. Automatic,
121. Irregular—
122. Detent release,
123. Ratchet release,
124. Flat platen,
125. Platen wear-distributers.
126. Manifolding.
127. Paper-feeding—
128. Condensed billing,
129. Divided platen,
130. Sheet-magazine,
131. Sheet, carbon-roll,
132. Tally-strip,
133. Web—
134. Carbon-roll,
135. Card-holders—
136. Platen-carried,
137. Feed-bands,
138. Feed-rolls,
139. Fingers,
140. Edge-gages,
141. Page-end locks,
142. Side-edge gages,
143. Tables.
144. Platens—
145. Detachable,
146. Endwise adjustable,
147. Noiseless,
148. Flat,
149. Printing-plane adjusters.
150. Ribbon mechanism—
151. Book,
152. Duplicating,
153. Visible—
154. Case-shift equalizing,
155. Multiple ribbon,
156. Varied path—
157. Automatic,
158. Vertically-reciprocating vibrator,
159. Automatic reverse—
160. Bulk,
161. Direct pull,
162. Double-feed,
163. Gear-operated,
164. Ribbon projection,
165. Double feed—
166. Automatic,
167. Endless ribbon,
168. Disconnecting,
169. Guides,
170. Ribbon-inkers,
171. Ribbons,
172. Signals—
173. Action-locks,
174. Spools.
175. Ruling devices.
176. Tabulators—
177. Column-selecting,
178. Denominational,
179. Stop-setting.
180. Attachments—
181. Erasing devices,
182. Reflectors.
183. Buffers.
184. Cleaners—
185. Automatic.
186. Frames.
187. Indicators—
188. Letter-space,
189. Page end,
190. Printing-point,
191. Tabulating,
192. Bells.
193. Machine-locks.
194. Scales.

198.—TYPE-CASTING.*
1. Integral line—
2. Non-releasing-matrix machines—
3. Wire guide—
4. Matrix-manipulating mechanisms,
5. Rotary matrix-carrier,
6. Slidable matrix-carrier—
7. Matrix-manipulating mechanisms.
8. Multiple-character-bar machines—
9. Assembling, casting, and distributing,
10. Assembling and distributing,

199.—TYPE-CASTING—Continued.
Integral line—Continued.
11. Assembling, casting, and distributing—
12. Non-screw-feed distributer-machines,
13. Assembling and casting,
14. Assembling and distributing—
15. Multiple-magazine machines—
16. Movable magazine,
17. Collector mechanism,
18. Assembling—
19. Multiple-magazine machines—
20. Movable magazine,
21. Collector mechanism,
22. Space-band mechanisms,
23. Escapement and collector mechanisms,
24. Multiple-channel automatic-shift mechanisms,
25. Power operating mechanisms,
26. Collector and transfer mechanisms,
27. Collector mechanisms—
28. Chute-springs,
29. Matrix-receivers—
30. Slide attachments,
31. Shifting mechanisms,
32. Transfer mechanisms,
33. Distributing—
34. Special matrix,
35. Non-screw-feed distributer,
36. Transfer mechanisms,
37. Matrix-carriers,
38. Odd-font-detecting mechanisms,
39. To multiple magazines—
40. Font-sorting—
41. Matrix-separator,
42. Matrix-separator,
43. Automatic stops,
44. Magazines—
45. Movable multiple magazine,
46. Removing attachments,
47. Casting mechanisms—
48. Multiple mold,
49. Matrix-holders.
50. Vises,
51. Justifying mechanisms,
52. Automatic stops—
53. Squirt-preventers,
54. Molds and cutters,
55. Molds—
56. Cooling devices,
57. Modified liner,
58. Liners,
59. Cutters,
60. Ejectors,
61. Deliveries,
62. Cleaning attachments,
63. Matrices—
64. Distributer features,
65. Multiple character,
66. Special-design face,
67. Space-bands—
68. Wedge.
69. Separate type—
70. Surplus-type-supply machines,
71. Individually-movable-matrix machines—
72. Releasing matrix,
73. Rotary-matrix-carrier machines—
74. Pattern control,
75. Slidable-matrix-carrier machines—
76. Two-way movement—
77. Pattern control,
78. Keyboard control,
79. Matrix-cases,
80. Casting mechanisms—
81. With finishing mechanisms—
82. Mold-side-ejector mold,
83. Two-part mold,
84. Mold-side-ejector mold—
85. Low quad,
86. Moving mold,
87. Two-part mold—
88. Moving mold,
89. Moving mold,
90. Squirt-preventers,
91. Molds—
92. Mold-side ejector—
93. Low quad,
94. Two-part,
95. Deliveries,
96. Matrices.

200.—ELECTRICITY—CIRCUIT MAKERS AND BREAKERS.*
1. Multiple-circuit control—
2. Loop,
3. Combined thermal current,
4. Combined pivoted and reciprocating contact,
5. Multiple switch,
6. Pivoted contact—
7. Combined types,
8. Radial contact-pressure—
9. Plural switch,
10. Arc extinguishing and preventing,
11. Dial type—
12. Electromagnetic release—
13. Plural switch.
14. Plural switch,
15. Knife-blade,
16. Reciprocating contact,
17. Operating means—
18. Plural switch.
19. Periodic—
20. Combined—
21. Rotary and cam—
22. Adjustable,
23. Multiple contact—
24. Rotary—
25. Adjustable,
26. Radial contact-pressure,
27. Cam-operated,
28. Rotary—
29. Adjustable,
30. Cam-operated—
31. Adjustable,
32. Liquid contact.
33. Retarded—
34. Dash-pot,
35. Clock-train—
36. Rotary—
37. Multiple contact,
38. Cam-operated,
39. Latch-trip—
40. Motor release,
41. Weight release.
42. Unauthorized-use preventing—
43. Permutation-switch,
44. Lock—
45. Permutation.
46. Pattern-sheet controlled.
47. Limit-switch.
48. High-potential type.
49. Pole-switch.
50. Interlocking.
51. Combined plug.
52. Special application—
53. Valve,
54. Door or sash,
55. Lock,
56. Indicating instrument,
57. Letter-box,
58. Tire,
59. Lever or wheel-shaft,
60. Portable light,
61. Incubator.
Snap—
62. Auxiliary snap-contact,
63. Rotating contact—
64. Push or pull,
65. Detent—
66. Radially movable,
Oscillating contact—
67. Double snap—
68. Cam or wedge release—
69. Two-button,
70. Latch-trip—
71. Two-button,
72. Two-button,
73. Single snap—
74. Latch-trip,
75. Two-button,
76. Reciprocating contact—
77. Cam or wedge release,
78. Latch-trip.
79. Suspended-wire controlled.
80. Centrifugal.
81. Fluid-pressure—
82. Piston,
83. Diaphragm.
84. Float.
85. Weight—
86. Treads.
87. Electromagnetic—
88. Combined thermal current,
89. Non-closable,
90. Periodic,
91. Alternating current,
92. Motor,
93. Polarized,
94. Predetermined current,
95. Magnetic-pull adjustment—
96. Automatic,
97. Retarded,

* See Definitions of Revised Classes.

200.—ELECTRICITY—CIRCUIT MAKERS AND BREAKERS—Continued.
- Electromagnetic—Continued.
  - 98. Multiple magnet—
  - 99. Alined—
  - 100. Core-armature,
  - 101. Core-armature,
  - 102. Multiple coil,
  - 103. Multiple armature,
  - 104. Multiple contact,
  - 106. Step by step,
  - 106. Latch-trip—
  - 107. Multiple switch,
  - 108. Retarded,
  - 109. Trips,
  - 110. Moving coil,
  - 111. Core-armature,
  - 112. Liquid contact.
- 113. Thermal current—
  - 114. Combined switch,
  - 115. Combined lightning-arrester,
  - 116. Latch-trip,
  - 117. Tensioned fuse,
  - 118. Shunt-circuit closing,
  - 119. Overfusing-preventing,
  - 120. Arc preventing and extinguishing,
  - 121. Indicators,
  - 122. Heater—
  - 123. Fusible—
  - 124. Self-soldering,
  - 125. Successive—
  - 126. Automatic,
  - 127. Expulsion type,
  - 128. Auxiliary cartridge,
  - 129. Plug and socket,
  - 130. Plug,
  - 131. Tube or cartridge—
  - 132. Terminal cap,
  - 133. Blocks and casings—
  - 134. Terminals and clips,
  - 135. Fusible elements.
- 136. Thermal—
  - 137. Expansible solid—
  - 138. Composite bar,
  - 139. Adjustable,
  - 140. Expansible fluid—
  - 141. Liquid contact,
  - 142. Fusible, combustible, or explosive—
  - 143. Cable.
- 144. Arc preventing and extinguishing—
  - 145. Multiple break,
  - 146. Auxiliary shunt,
  - 147. Magnetic blow-out,
  - 148. Air-current blow-out,
  - 149. Interposed non-conductor—
  - 150. Liquid,
  - 151. Solid.
- 152. Liquid contact.
- 153. Mechanical—
  - 154. Quick break,
  - 155. Rotating—
  - 156. Push or pull,
  - 157. Hand-grip,
  - 158. Screw,
  - 159. Push-button—
  - 160. Single-stroke make and break,
  - 161. Pull,
  - 162. Knife-blade or plug—
  - 163. Reciprocating,
  - 164. Rubbing or brush contact,
  - 165. Face or normal contact.
- 166. Details—
  - 167. Indicators,
  - 168. Casings and bases,
  - 169. Latch,
  - 170. Contact-pressure adjustment,
  - 171. Blade or pole-plate,
  - 172. Handles or buttons.

202.—CHARCOAL AND COKE.
- Charcoal—
  - 10. Kilns,
  - 2. Processes,
  - 3. Retorts.
- Coke—
  - 4. Ovens—
  - 5. Chargers and dischargers—
  - 11. Quenching,
  - 6. Doors,
  - 7. Dumping-bottoms,
  - 8. Processes,
  - 9. Retort-ovens.

203.—AMMONIA, WATER, AND WOOD DISTILLATION.
- 1. Ammonia.
- Turpentine—
  - 3. Apparatus,
  - 4. Processes.
- 5. Water.
- 6. Wood.

204.—ELECTROCHEMISTRY.
- Batteries—
  - 49. Anodes,
  - 54. Carbon,
  - 50. Cathodes,
  - 52. Connectors,
  - 51. Diaphragms,
  - 47. Earth,
  - 48. Gas,
  - 33. One-fluid—
  - 55. Iron,
  - 34. Zinc—
  - 39. Chlorids,
  - 37. Chromates,
  - 35. Nitrates,
  - 38. Oxids,
  - 36. Sulfates,
  - 46. Piles,
  - 29. Secondary,
  - 40. Two-fluid—
  - 56. Iron,
  - 41. Zinc—
  - 45. Chromates,
  - 42. Nitrates,
  - 43. Sulfates—
  - 44. Gravity,
  - 53. Vessels and supply devices.
- 64. Electric furnaces.
- Electrodes—
  - 65. Carbon.
- Electrolytes—
  - 1. Aqueous bath—
  - 2. Alloys,
  - 3. Aluminum,
  - 4. Anodes,
  - 5. Apparatus,
  - 6. Cathodes—
  - 7. Cleaning,
  - 8. Metallizing,
  - 9. Chemicals—
  - 58. Alkalis and chlorin,
  - 59. Bleaching and disinfecting liquors,
  - 60. Chlorates,
  - 61. Dyes and pigments,
  - 10. Copper,
  - 11. Depolarizing and burnishing,
  - 12. Gold,
  - 13. Multiple,
  - 14. Nickel,
  - 15. Ores,
  - 57. Refining metals,
  - 16. Silver,
  - 17. Tin,
  - 18. Zinc,
  - 28. Diaphragms,
  - 19. Fused bath—
  - 20. Aluminum,
  - 21. Sodium,
  - 24. Purifying liquids—
  - 26. Alcohol,
  - 25. Water.
- 63. Reduction.
- 31. Synthesis—
  - 62. Carbids,
  - 32. Ozone.
- 27. Tanning.

205.—METAL-DRAWING.*
- 1. Miscellaneous.
- 9. Tube-welding—
  - 10. Laterally-movable drawhead,
  - 11. Die and mandrel,
  - 12. Processes.
- 3. Bars and tubes—
  - 4. By thrust,
  - 5. Hydraulic drive,
  - 6. Screw-drive,
  - 7. Backing-mandrel,
  - 8. Processes.
- 16. Wire—
  - 13. Multiple die—
  - 14. Tandem,
  - 15. Rotary,
  - 17. Covering—
  - 18. Processes,
  - 19. Lubricating,

205.—METAL-DRAWING—Continued.
- Wire—Continued.
  - 20. Drawing-drums,
  - 21. Processes.
- 25. Die-holders.
- 26. Dies—
  - 27. Skelping,
  - 28. Welding,
  - 29. Wire.
- 22. Appliances—
  - 23. Tags,
  - 24. Tongs.
- 2. Processes.

206.—SPECIAL RECEPTACLES AND PACKAGES.*
- 1. Receptacles—
  - 3. Ammunition,
  - 4. Camp and lunch kits,
  - 5. Eyeglass or spectacle—
  - 6. Hinged parts,
  - 7. Garment,
  - 8. Hat and headware—
  - 9. Racks, frames, and rings,
  - 11. Fur,
  - 12. Medicine-chests,
  - 13. Musical instruments—
  - 14. Violin,
  - 15. Phonograph-cylinders,
  - 15.1. Brush,
  - 15.6. Toilet appliances,
  - 16. Tools and appliances—
  - 17. Bits and drills,
  - 17.5. Syringes,
  - 18. Watch-movement,
  - 19. Sacramental,
  - 20. Match-safes—
  - 21. Single delivery—
  - 22. Grooved roller,
  - 23. Grooved slide—
  - 24. Horizontal movement,
  - 25. Picker-arm,
  - 26. Sliding pusher—
  - 27. Pocket,
  - 28. Baffle,
  - 29. Match-packages,
  - 30. Side-supported,
  - 31. Box-holders and convertible boxes,
  - 32. Withdrawal-igniting,
  - 33. Pocket—
  - 34. Withdrawal-igniting,
  - 35. Cigar-cutters and wind-guards,
  - 36. Scratchers and wind-guards,
  - 37. Pocket and personal use—
  - 38. Combination,
  - 39. Ticket-cases—
  - 40. Ejecting,
  - 41. Cigars and tobacco,
  - 42. Pellets and granules,
  - 43. Hypodermic syringes, etc.,
  - 44. Display—
  - 45. Terraced or stepped shelves,
  - 2. Acid-proof,
  - 10. Insect-proof.
- 46. Packages—
  - 47. Combination,
  - 48. Matches with cigarettes, etc.,
  - 49. Embroidery, laces, and ruching,
  - 50. Cloth bolts, boards, etc.,
  - 51. Ribbons, braids, and trimmings—
  - Rolls or spools—
  - 52. Inclosed,
  - 53. Clamps—
  - 54. Centrally attached,
  - 55. Layer-retained,
  - 63. Stationery,
  - 63.2. Surgical supplies—
  - 63.3. Ligatures,
  - 63.4. Vaccine points,
  - 64. Thread,
  - 66. Needles and pins,
  - 67. Pencils, etc.,
  - 68. Incandescent mantles,
  - 69. Rubber bags and tubing,
  - 70. Watch-springs,
  - 71. Metallic leaf,
  - Multiple article—
  - 65. Nested, stayed, or interbraced,
  - 56. Dispensing—
  - 57. Paper sheets,
  - 58. Paper-rolls,
  - 59. Rolls and reels,
  - 60. Plates and sheets—
  - 61. Fly-paper,
  - 62. Fragile and sensitive.

* See Definitions of Revised Classes.

207.—PLASTIC METAL WORKING.*

1. **Miscellaneous.**
2. **Die-expressing—**
3. Plunger and mandrel—
4. Tubular mandrel,
5. Bridge-mandrel,
6. Integral—
7. Fixed plunger,
8. Rotary plunger,
9. Plunger,
10. Processes.
11. **Gravity-molding—**
12. Traveling mold—
13. Rotary,
14. By rolls.
15. **Containers.**
16. **Cooling and heating.**
17. **Dies—**
18. Variable opening.
19. **Mandrels.**

208.—VELOCIPEDES.

11. **Bearings.**
- **Bicycle, propulsion—**
17. Crank and chain—
153. Chain adjustments,
154. Changeable-speed gear,
- Crank and gear—
50. Normally-fixed stud-plate,
74. Planetary,
48. Reverting-train,
49. Rotating side shaft,
46. Train—
47. Internal rack,
164. Fluid-pressure motor,
18. Lever and crank,
20. Lever and ratchet,
19. Lever, crank and gear, or chain,
21. Lever, ratchet and gear, or chain,
23. Miscellaneous,
22. Rack and pinion.
- **Bicycles—**
5. Header-preventers.
13. **Brakes—**
57. Back-pedaling,
60. Band,
58. Pneumatic,
59. Roller.
45. **Carrier.**
145. **Casings—**
146. Chain—
147. Attached,
148. One-piece,
149. Radially separable.
24. **Child's seats.**
151. **Cleaner attachments—**
152. Chain.
130. **Combined handle-bar and post adjustment.**
27. **Coupling-bars.**
9. **Crank-clutches.**
- **Cranks—**
69. Variable leverage.
68. **Cranks and crank-shafts.**
3. **Dicycles.**
2. **Epicycles.**
93. **Frames—**
98. Crank-hangers,
107. Depressible seat,
104. Drop convertible,
105. Folding,
96. Forks—
97. Springs,
102. Heads—
103. Spring,
95. Joints,
106. Knockdown,
110. Ordinary,
111. Parallel seats,
113. Polycycles,
155. Pumps,
94. Spring,
101. Spring-axles,
100. Spring saddle-supports,
108. Tandem—
109. Convertible,
112. Trailing wheels,
99. Yokes.
115. **Handle-bars—**
123. Automatically collapsing,
122. Automatically detachable,
116. Continuous adjustable—
- Locks—
117. Cam,
118. Screw and dog,
119. Spring,
124. Folding,
120. Sectional, adjustable—
121. Simultaneously,
125. Spring.

208.—VELOCIPEDES—Continued.

126. **Handles—**
127. Auxiliary,
128. Pneumatic,
129. Strip.
67. **Harness.**
- **Holders—**
- Brackets—
86. Fixed arm or jaw,
87. Pivoted arm or jaw,
- Racks—
90. Frame-supports,
88. Wheel or tire supports—
89. Tilting shoe,
- Stands—
91. Floor-supported,
92. Wall-supported.
139. **Miscellaneous.**
140. **Mud-guards—**
141. Wheel—
142. Rim—
143. Limp,
144. Sectional.
70. **Pedals.**
165. **Polycycles—**
42. Figure.
- **Polycycles, propulsion—**
40. Axle-couplings,
32. Crank and chain,
- Crank and gear—
51. Planetary,
54. Reverting-train.
55. Rotating side shaft,
52. Train—
53. Internal rack,
30. Crank and pitman,
33. Lever and crank.
34. Lever, crank and gear, or chain,
35. Lever and ratchet,
36. Lever, ratchet, and gear, or chain,
38. Miscellaneous,
37. Rack and pinion.
163. Spring-motor.
- **Posts—**
131. Mechanical adjustment,
132. Self-locking.
- **Props—**
156. Fixed,
- Pivoted—
75. One leg—
76. Extension hinged,
77. Extension sliding,
78. Lever-actuated,
79. Spring-locked,
80. Universal joint,
- Two (or more) legs—
81. Cam (or gear) spread,
82. Lever-spread,
83. Spring-spread,
- Sliding—
84. One leg,
85. Two (or more) legs.
138. **Rests.**
41. **Rowing-machines.**
63. **Saddle-clamps.**
- **Saddle-posts—**
62. Rigid,
61. Spring.
15. **Saddles—**
64. Pneumatic,
65. Rigid seat,
66. Sectional.
150. **Shields.**
157. **Sleds—**
158. Stepper—
159. Foot-driven,
160. Traction-wheel—
161. Foot-driven—
162. Converted bicycle.
114. **Steering devices.**
- **Steering-wheel—**
136. Automatically governed,
137. Locking.
26. **Steps and footrests.**
133. **Telescopic-tube clamps—**
135. Split collar,
134. Tubular wedge.
71. **Toe-clips.**
1. **Unicycles.**

210.—WATER PURIFICATION.

23. **Boiler-compound holders.**
22. **Boiler compounds.**
- **Filters—**
37. Barrel.
2. Beer,
25. Centrifugal—
23. Agitating or conveying—
30. Rotary stirrer,
31. Stationary stirrer,

210.—WATER PURIFICATION—Con.

- **Filters**—Continued.
- Centrifugal—Continued.
34. Discharging residue—
35. Bottom discharge,
32. Driving mechanism—
33. Motor,
27. Fluid treatment—
28. Liquid,
26. Honey-extractors,
36. Receiving filtrate,
19. Chemical-feeders,
3. Cistern-cleaners,
4. Cistern-supply,
5. Decanters,
6. Faucet,
7. Filtering-faucets.
8. Granular bed,
9. Materials,
10. Oil,
11. Porous wall,
12. Portable,
13. Pressure,
14. Rotary bed,
15. Service-pipe,
16. Strainers,
17. Submerged,
18. Systems.
1. **Miscellaneous.**
24. **Plural receptacle.**
21. **Steam heater and filter.**

211.—STORE FURNITURE.

1. **Bag and twine holders—**
2. Bag-holders.
6. **Bins.**
7. **Cabinets—**
8. Delivering—
44. Pin,
9. Grocers',
10. Spool,
41. Type—
42. Delivering.
11. **Counters—**
12. Attachments.
34. **Display-cards.**
13. **Display-forms.**
14. **Display-racks—**
15. Adjustable arm,
17. Hanging,
16. Inclosed,
18. Roll,
20. Rotary—
21. Inclosed,
22. Sample-sheet—
23. Rotary.
24. **Display-stands.**
28. **Display-trays.**
43. **Hand-stamp racks.**
35. **Pattern-exhibitors.**
36. **Post-office furniture.**
- **Sample-holders—**
40. Box-attached.
29. **Serving apparatus—**
31. Roll-holders—
32. Cutting attachment,
33. Feeding attachment.
27. **Shelving.**
25. **Show-cases—**
26. Lid-lifters.
37. **Ticket-cases—**
38. Gravity-feed,
39. Spring-clasp.

212.—TRAVERSING HOISTS.*

1. **Miscellaneous.**
2. **Weighing.**
3. **Floating.**
4. **Door-lifters.**
5. **Track-straddling—**
6. Self-propelled.
7. **Skidding.**
8. **Vertically-swinging hoist-frame—**
9. Load-handling.
10. **Traveling cranes—**
11. Load-handling,
12. Horizontally-swinging bridge,
13. Gantry—
14. Load-handling,
15. Overhanging end—
16. Flexible bridge,
17. Jib,

* See Definitions of Revised Classes.

212.—TRAVERSING HOISTS—Con.

Traveling cranes—Continued.

18. Overhead—
19. Flexible bridge,
20. Bridge-mounted hoist-motor,
21. Electric—
22. Multiple track,
23. Stationary motor—
24. Cable-driven—
25. Fluid,
26. Traveling motor, fluid-hoist,
27. Traveling motor, cable-shift.
28. **Rotary cranes**—
29. Combined crane and supporting-rack,
30. Fluid—
31. Swinging hoist-motor, cable-hoist,
32. Swinging hoist-motor, trolley-mounted,
33. Vertically-movable jib—
34. Mast-jack,
35. Vertically-swinging jib,
36. Line-shaft driven,
37. Vehicle-wheel power,
38. Self-propelled,
39. Automatic stop,
40. Load suspension,
41. Load-handling—
42. Grab—
42.5. Guide-bar,
43. Portable—
44. Grab,
45. Sling,
46. Portable, horizontally-pivoted mast,
47. Opposing jibs,
48. Counterbalanced,
49. Portable,
50. Automatic sluing—
51. Portable,
52. Variable radius—
53. Portable,
54. Variable radius—
55. Extensible jib,
56. Trolley,
57. Vertically-movable jib,
58. Vertically-swinging jib—
59. Portable,
60. Lever, first class,
61. Fixed radius—
62. Lever, first class,
63. Trolley,
64. Vertically-movable jib,
65. Portable,
66. Sluing mechanism—
67. Bull-wheel,
68. Gear-sector,
69. Sluing-platform,
70. Pivots, steps and mast-caps.
71. **Linear**—
72. Cable-ship coaling type,
73. Shiftable track—
74. Longitudinally movable,
75. Tilting,
76. Cable—
77. Load-handling—
78. Draft-rope—
79. Dumping—
80. Double tackle,
81. Grab,
82. Sling,
83. Load suspension—
84. Grab,
85. Sling,
86. Automatic stop,
87. Draft-rope, hoist-rope traverse—
88. Divided hoist-rope,
89. Hook-lowering,
90. Running track,
91. Cable return,
92. Gravity return—
93. Cable,
94. Draft-rope, independent traverse—
95. Anchored hoist-rope,
96. Hook-lowering,
97. Load suspension
98. Hoist, carry and lower,
99. Running rope,
100. Sheave-catch—
101. Pivoted cable extension,
102. Sheave-frame catch—
103. Sliding,
104. Pivoted—
105. Double,
106. Rope-catch—
107. Sliding,
108. Pivoted—
109. Double,

212.—TRAVERSING HOISTS—Con.

Linear—Continued.

Cable—Continued.

Load-suspension—Con.

110. Rope-grip—
111. Variable elevation—
112. Carriage release,
113. Side draft,
114. Coacting sheave,
115. Ratchet-sheave,
116. Trips, stops, and knockers,
117. Rope-carriers—
118. Cable-stop operated,
119. Trolley-supported,
120. Carrier-sheave operated,
121. Permanently spaced,
122. Carriage-holders, track-clamp,
123. Pulley-changers,
124. Self-propelled—
125. Load-handling—
126. Electric—
127. Grab,
128. Guide-bar—
129. Grab,
130. Ladle,
131. Electric—
132. Automatic stop,
133. Hanging-cable traverse,
134. Non-motor traverse—
135. Load-handling—
136. Discharging—
137. Automatic,
138. Fluid-hoist,
139. Lever-hoist,
140. Surface—
141. Self-propelled,
142. Drum—
143. Intermittent grip.
144. **Jibs and masts.**
145. **Auxiliary supports.**

213.—RAILWAY DRAFT APPLIANCES.

39. **Buffers**—
60. Drawbar-actuated,
2. Fluid-pressure.
Bumpers—
3. Rigid.
Couplings—
35. Arrow-head and jaws,
36. Balls,
37. Beveled link and fixed catch,
38. Beveled link and swing-catch,
61. Chains,
40. Combined air-brake,
Combined drawbar and hook—
4. With link,
43. Headed link and V-slot,
44. Hook and catch,
45. Hook and link—
5. Combined,
65. Janney type—
6. Emergency releases,
7. Gravity-locks,
8. Horizontal sliding latches,
9. Knuckle-openers,
Knuckle-openers and locks—
10. Combined,
11. Pivoted horizontal latches,
12. Pivoted vertical latches,
13. Safety-brackets,
14. Vertical sliding pins,
Link—
62. End-openers,
63. Handled,
15. Star-wheel detent,
47. Link-lifters,
49. Miller hook—
66. Swing-heads,
Pin-supports—
16. Balls,
51. Gravity,
52. Spring,
50. Pins and links,
54. Rolling detent,
53. Rotary heads,
55. Sliding detent,
56. Swing pins,
58. Train,
17. Twin jaws,
59. Uncoupling-levers.
42. **Drawbars**—
41. Continuous,
64. Friction-buffers,
68. Lifters.
18. Street-car.
Locomotives—
19. Side-track push-rods.
67. **Miscellaneous.**
20. **Street-car poles.**

214.—MATERIAL OR ARTICLE HANDLING.*

1. **Miscellaneous.**
2. **With weighing.**
3. **Pole or tree handlers.**
3.1. **Glass cylinders.**
4. **Bobbin doffing or donning.**
5. **Hay-distributers.**
Piling or arranging apparatus—
6. Article—
7. Edge-piling,
8. Frame and handler,
9. Stack-shapers,
10. Coal-storage type.
11. **Manually-controlled selective delivery.**
12. **Marine loading or unloading systems**—
13. Ships at sea,
14. Ship and shore.
Charging or discharging apparatus—
15. Ship,
16. Storehouse,
17. Bin or tank,
18. Furnace type—
19. Inclined elevator—
20. Bucket-orienting,
21. Endless or rotary carrier,
22. Rotary levelers,
23. Reciprocating-bar conveyer—
24. Multiple,
25. With endless or rotary carrier,
26. Charge-supporting—
27. Grab—
28. Horizontally swinging,
29. With discharging-pusher—
30. Charge-spreading or furnace-discharging feature,
31. Axially rotatable,
32. Horizontally and vertically swinging,
33. Horizontally-swinging,
34. Sectional,
35. Gravity type—
36. Bell and hopper—
37. Rotary feature.
Roadway vehicle loading or unloading—
38. With external cooperating means—
39. Rural mail,
40. Railway-car and hoist,
41. Vehicle-loading—
42. Moving vehicle—
43. Traveling hopper,
44. Vehicle-unloading—
45. Vehicle dump and carrier—
46. Endless carrier,
47. Tilting track-section—
48. Horizontally swinging,
49. Wagon-dump type,
50. Switch systems,
51. Non-fixed pivot,
52. Side tilt,
53. Shaking or jarring,
54. Vehicle-door-operating feature,
55. Car feeding or holding—
56. Second car releasing first,
57. Plows,
58. Moving vehicle—
59. Suspended—
60. Selective delivery,
61. Tilting,
62. Tilting,
63. Door-closing feature,
64. Tilting vehicle-body,
65. Self loading or unloading vehicles—
65.2. Brick-stack,
65.3. Log,
65.4. Hand-trucks, hooking or gripping—
65.5. Opposing jaws,
66. Load binders and handlers,
67. Garbage,
68. Wheeled or sledded scoops, elevating—
69. With gates—
70. Front end,
71. Gear-hoist,
72. Drum-and-cable hoist,
73. Lever and catch,
74. Vehicle-actuated,

*See Definitions of Revised Classes.

214.—MATERIAL OR ARTICLE HANDLING—Continued.
- **Roadway vehicle loading or unloading**—Continued.
  - Self loading or unloading vehicles—Continued.
    - 75. Elevator,
    - 77. Vertically-swinging load-support—
      - 78. Shovel or fork type—
        - 79. Auxiliary rake,
        - 80. Swinging laterally from vehicle,
      - 81. Vehicle-actuated,
    - 81.5. Hayrack type, movable car,
    - 82. Ejectors or followers,
    - 83. Conveyer—
      - 84. Roller-way,
      - 85. Skidway.
  - **Traversing-hoist type—**
    - 87. Traveling crane—
      - 88. Switch systems.
  - **Combined carriers—**
    - 89. Hoist and endless or rotary carrier,
    - 90. Vertically-swinging shovel and auxiliary carrier,
    - 91. Vertically-swinging load-support and endless or rotary carrier,
    - 92. Vertically-swinging load-support and hoist or drag line,
    - 93. Endless or rotary carrier and drag-line scoop,
    - 94. Skidway with hoisting-rope.
  - **Elevator or hoist type—**
    - 96. Mail,
    - 97. Store-goods lifters,
    - 98. Wagon-box-lifter type,
    - 99. Load-lowering, automatic return,
    - 100. Inclined—
      - 101. Ditching type—
        - 102. Pivoted track.
      - 103. Tilting carrier—
        - 104. Tilting track-section,
        - 105. Running out from base—
          - 106. Return, buffer, or counterweight feature,
        - 107. Return, buffer, or counterweight feature,
      - 108. Skeleton or fork,
      - 109. Outhaul feature,
      - 110. Carrier running out from base,
    - 111. Horizontally swinging—
      - 112. Skeleton or fork type,
    - 113. Skeleton or fork type,
    - 114. Magnet and grab,
    - 115. Grab,
    - 116. Bucket—
      - 117. Valved—
        - 118. Chute movable into shaft,
      - 119. Guided—
        - 120. Tilting,
    - 121. Tilting platform—
      - 122. Car-handling—
        - 123. Side tilt,
      - 124. Sectional,
    - 125. Carrier-operated feeding mechanism—
      - 126. Car,
      - 127. Return, buffer, or counterweight feature,
      - 128. Automatic stop,
      - 129. Chute movable into shaft.
    - **Vertically-swinging load-support—**
      - Shovel or fork type—
        - Horizontally swinging—
          - Vertically adjustable,
          - Trolley-supported pivoted handle,
          - Reciprocating handle—
            - 135. Link-supported,
            - 136. Tilting,
            - 137. Handle pivoted to boom,
          - 138. Guided,
          - 139. Tilting,
          - 140. Extensible support,
          - 141. Return, buffer, or counterweight feature—
            - 142. Spring,
            - 143. Hay-retainers,
            - 144. Shovel and handle structure—
              - 145. Dumping mechanism,
            - 146. Grab,
            - 147. Non-fixed pivot,
            - 148. Tilting carrier.
    - **151. Horizontally-swinging load-support.**
    - **152. Processes.**

215.—BOTTLES AND JARS.
- 1. **Bottle attachments—**
  - 2. Clip,
  - 116. Nursing-bottle holders.
- 3. **Bottle-cases.**
- 8. **Bottle-stoppers—**
  - 9. Cap—
    - 10. Crimped,
    - 11. Elastic,
    - 12. Frangible,
    - 13. Screw,
  - 14. Disk,
  - 15. Dose—
    - 16. Droppers,
  - 100. Ejectors.
  - 17. Expanding—
    - 18. Cam,
    - 19. Screw,
  - 20. Fasteners—
    - 21. Ball—
      - 22. Locking,
    - 23. Cap—
      - 24. Tie,
    - 101. Expanding,
    - 25. Spring—
      - 26. Clip,
      - 27. Wire,
    - 28. Internal—
      - 29. Ball,
      - 30. Extension—
        - 31. Wire,
        - 32. Plug,
      - 33. Locks,
      - 34. Pivoted—
        - 35. Locking—
          - 36. Ball,
          - 37. Cam—
            - 38. Plug,
            - 39. Rotary,
          - 40. Lever—
            - 41. Lever and yoke,
            - 42. Plug—
              - 43. Slotted,
            - 44. Top—
              - 45. Slotted,
              - 46. Wire,
          - 47. Screw,
          - 48. Spring—
            - 49. Catch,
    - 50. Plug—
      - 51. Composite,
      - 52. Screw,
    - 53. Pullers,
    - 54. Tube—
      - 55. Valve—
        - 56. Ball,
        - 57. Rotary,
        - 58. Screw,
        - 102. Spring,
        - 59. Vent.
  - 60. **Bottle-valves—**
    - Controllers—
      - 61. Spring,
      - 62. Weight—
        - 63. Pendent,
      - 64. Float,
      - 65. Guards—
        - 66. Caps,
        - 67. Fasteners,
      - 68. Multiple,
      - 103. Necks, separable,
      - 114. Siphon-head
      - 115. Spring-controlled,
      - 69. Valves and seats.
  - 70. **Bottles—**
    - 71. Compartment,
    - 72. Indicating—
      - 112. Internal,
      - 113. Poison,
    - 73. Jugs,
    - 77. Necks—
      - 78. Breakable—
        - 105. Bottom fillers,
        - Stopper-fasteners—
          - 106. Disk,
          - 107. Ring,
          - 108. Spring,
        - Stoppers—
          - 109. Expanding,
          - 110. Multiple,
          - 111. Plastic,
      - 79. Nesting,
      - 117. Nursing.
    - 80. **Jar-closures—**
      - 81. Cap—
        - 82. Grooved,
        - 83. Ring,
        - 84. Screw
          - 85. Inclines,
          - 86. Ring,
        - 87. Clamp—
          - 88. Lever,
          - 89. Screw,
        - 90. Pivoted,

215.—BOTTLES AND JARS—Continued.
- **Jar-closures**—Continued.
  - 91. Spring—
    - 92. Bow,
    - 93. Inclines,
    - 94. Packing,
  - 95. Stoppers—
    - 96. Expanding,
    - 97. Plug—
      - 98. Screw.
  - 99. **Jars—**
    - 104. Ejecting.
    - 118. **Spaced wall.**

216.—LABEL-PASTING AND PAPER-HANGING.*
- 1. **Combined machines—**
  - 2. Label printing and affixing,
  - 3. Envelop sealing and stamping.
- 4. **Paper-hanging—**
  - 5. Coating and affixing apparatus—
    - 6. Hand,
  - 7. Affixing apparatus,
  - 8. Surface preparation.
- 9. **Machines—**
  - 10. Spool-labeling,
  - 11. Selective,
  - 12. Multiple labeling—
    - 13. Bottle neck and body,
    - 14. Sample-card,
  - 15. Sheet—
    - 16. Rack-and-pinion feed,
    - 17. Rack-and-pawl feed,
    - 18. Escapement-feed,
    - 19. Screw-feed,
  - 20. Strip—
    - 21. Severing—
      - 22. Reciprocating cutter—
        - 23. Pusher-feed,
        - 24. Four-motion feed,
        - 25. Roller-feed—
          - 26. Hand,
        - 27. Rotary-tooth feed,
        - 28. Perforation-feed,
      - 29. Pivoted cutter—
        - 30. Scissors type—
          - 31. Belt-conveyer feed,
          - 32. Ribbon-feed,
        - 33. Tearing,
  - 34. Affixing-magazine, moving—
    - 35. Pressure pad or plunger,
    - 36. Presser-form,
    - 37. Rollers,
    - 38. Wipers or brushes,
    - 39. Flexible wrapper,
    - 40. Revolving article,
    - 41. Fluid-pressure,
  - 42. Affixing-magazine, stationary—
    - 43. Adhesive applying or moistening—
      - 44. Fixed roller,
      - 45. Moving roller,
      - 46. Fixed reservoir or absorbent,
      - 47. Moving reservoir or absorbent,
      - 48. Endless belt,
      - 49. Spray or steam,
  - 50. Affixing-magazine, hand,
  - 51. Storage-magazine—
    - 52. Label-pickers—
      - 53. Nippers,
      - 54. Adhesive,
      - 55. Suction,
    - Article-support—
      - 56. Table,
      - 57. Conveyer,
      - 58. Runway,
      - 59. Rotary,
      - 60. Roller.
  - 61. **Tools.**
  - 62. **Processes.**

217.—WOODEN RECEPTACLES.*
- 4. **Tanks.**
- 5. **Boxes—**
  - 127. Bottle-mailing cases,
  - 6. Block,
  - 7. Compartment
    - 8. Folding—
      - 9. Display,
    - 10. Display,
  - 11. Display,

* See Definitions of Revised Classes.

217.—WOODEN RECEPTACLES—Con.
Boxes—Continued.
12. Knockdown—
13. Sectional,
Folding—
14. Horizontal and vertical pivot,
15. Horizontal pivot,
16. Vertical pivot,
36. Crates—
37. Bicycle—
38. Folding,
40. Fruit-box,
42. Ventilating,
43. Knockdown—
44. Cylindrical and bilge,
45. Sectional,
Folding—
46. Horizontal and vertical pivot,
47. Horizontal pivot,
48. Vertical pivot,
49. Cylindrical,
51. Wired slats,
52. Cushioned—
53. Padded,
54. Spring—
55. Spiral,
17. Walls,
18. Cells—
19. Bottle—
20. Cord,
21. Plate,
22. Strip,
23. Bent,
24. Clip,
25. Cord,
25.5. Block,
26. Plate—
26.5. Cupped,
27. Cushioned,
28. Pocket,
29. Separable,
30. Strip—
31. Locking—
32. Angular,
33. Bent,
34. Cushioned,
35. Cushioned,
56. Closures—
57. Hinged—
58. Display,
59. Sliding,
60. Supports—
61. Detachable,
62. Sliding—
63. Display,
64. Followers,
65. Joints,
66. Straps—
67. Corrugated,
68. Wire,
69. Stays—
70. Driving—
71. Wire.
77. Barrels—
73. Cases,
74. Ventilated,
75. Compartment,
76. Closures—
77. Braced,
78. Expanding—
79. Wedge,
80. Croze and chamfer,
81. Covers—
82. Compartment,
83. Hinged,
84. Sliding,
85. Wire,
87. Gates,
89. Fasteners,
86. Followers,
88. Staves,
90. Hoop-sockets,
91. Hoops—
92. Elastic,
93. Retainers,
94. Tighteners—
95. Screw,
96. Joints,
97. Moisteners,
98. Bungs—
99. Valved—
100. Automatic—
101. Safety,
102. Controllers,
103. Collapsible,
104. Flexible diaphragm,
105. Liquid seal,
106. Locking—
107. Bayonet and screw,
108. Expanding—
109. Gasket,

217.—WOODEN RECEPTACLES—Con.
Barrels—Continued.
Bungs—Continued.
110. Plugs—
111. Frangible diaphragm,
112. Extractors,
113. Bushings,
114. Protectors and cancelers.
122. Baskets—
123. Bottoms,
124. Closures,
125. Handles.
1. **Bent—**
2. Angular.
3. **Linings.**
126. **Bucket-ears.**

218.—BUTTON, EYELET, AND RIVET SETTING.*
Machines—
0.5. Gang,
4. Button—
5. Riveting—
6. Magazine,
Eye-shank—
7. Tack-fastener,
Staple-fastener—
8. Staple making and setting,
9. Threading and setting,
10. Threaded-button feed,
11. Threaders,
12. Button-feeders,
13. Tack-fastener feeders,
1. Riveting—
2. Magazine—
2.1. Feeding,
3. Staple,
14. Eyeleting—
15. Magazine—
15.1. Feeding,
16. Lacing-hook—
17. Magazine—
17.1. Feeding,
18. Button-carding,
17.2. Gages.
Implements—
20. Button—
21. Riveting,
22. Pliers—
23. Tack-fastener,
24. Staple-fastener,
19. Riveting,
25. Eyeleting,
26. Lacing-hook,
27. Button-detaching.
28. **Packages.**

219.—ELECTRIC HEATING AND RHEOSTATS.*
1. **Metal heating and working—**
2. Riveting,
3. Shaping,
4. Welding—
5. Rings,
6. Tubes,
7. Arc system—
8. Work in circuit—
9. Liquid electrode,
10. Processes.
11. **Metal-heating—**
12. Soldering,
13. Transformer system,
14. Arc system—
15. Work in circuit—
16. Liquid electrode,
17. Work-holders—
18. Cooled.
19. **Heaters—**
20. Systems,
21. Tools and instruments—
22. Heaters—
23. Tool-controlled,
24. Hair-curlers,
25. Sadirons,
26. Soldering-irons—
27. Solder-feeding,
28. Indirectly heated,
29. Burning—
30. Branding-stamps,
31. Cauters,
32. Igniters,
33. Oil-well,
38. Fluid—
39. Forced circulation,
40. Fluid in circuit,
41. Immersion,

219.—ELECTRIC HEATING AND RHEOSTATS—Continued.
Heaters—Continued.
42. Heating-fans,
43. Vessels and stands,
44. Vessels,
45. Incandescent lamp,
46. Flexible,
47. Inductional,
34. Radiators,
35. Ovens—
36. Tubular,
37. Radiating-plate.
48. Rheostats—
49. Lamp-socket,
50. Compressible—
51. Pile,
52. Spring,
53. Embedded resistance,
54. Pile,
55. Continuous resistance—
56. Helix,
57. Liquid,
58. Penetration,
59. Reel,
60. Tapering,
61. Plug-boxes,
62. Rectilinear slide.
63. Resistance elements—
64. Embedded—
65. Fluid,
66. Granular,
67. Incased coils,
68. Piles,
69. Zigzag grids,
70. Zigzag helix,
71. Compound helix,
72. Granular,
73. Lamellar—
74. Ribbon,
75. Carbon,
76. Composition.

220.—METALLIC RECEPTACLES.*
1. **Miscellaneous.**
2. **Coal-receptacles.**
3. **High-pressure-gas holders.**
4. **Sectional—**
5. Barrel or tank type,
6. Folding—
7. Fastening members,
8. Telescoping.
9. **Spaced wall or jacket—**
10. Metal jacket,
11. Paper or wood jacket,
12. Skeleton jacket,
13. Water-jacket,
14. Attachments,
15. Spacing devices,
16. Compartment,
17. Removable inner receptacle.
18. **Wall or ground supported.**
19. **Wire.**
20. **Compartment—**
21. Cell,
22. Partitions,
23. Receptacle in cover.
24. **Closures—**
25. External and internal bar or closure.
26. Float,
27. Frangible—
28. Breakable,
29. Multiple,
30. Pivoted—
31. Modified closure or receptacle,
32. Single-plane swing—
33. Angular pivot,
34. Multiple pivot,
35. Spring,
36. Opening devices,
37. Multiple-plane swing,
38. Sliding,
39. Screw—
40. Bayonet,
41. Sliding,
42. Slip type—
43. Opening devices,
44. Vent,
45. Seals, liquid,
46. Packing,
47. Opening devices—
48. Cutting—
49. Wire—
50. Seam,
51. Puncturing and closing,
52. Key,
53. Ripping—
54. Integral strip,

*See Definitions of Revised Classes.

220.—METALLIC RECEPTACLES—Con.
- Closures—Continued.
  - 55. Fastening devices—
  - 56. Bail or handle,
  - 57. Bar,
  - 58. Bail-ear,
  - 59. Integral—
  - 60. Snapping,
  - 61. Ring.
  - 62. Blanks.
  - 63. Linings—
  - 64. Coated,
  - 65. Paper or wood.
  - 66. End structures—
  - 67. Body and end seam or joint,
  - 68. Double-walled,
  - 69. Supports—
  - 70. Integral.
  - 71. Body-reinforcing—
  - 72. Integral.
  - 73. Edge-reinforcing—
  - 74. Integral.
  - 75. Seams or joints—
  - 76. Interfitting parts—
  - 77. Three to five walls,
  - 78. Six or more walls,
  - 79. Rolled,
  - 80. Separate strip,
  - 81. Packing.
  - 82. Transparent wall.
  - 83. Wall structure—
  - 84. Skeleton frame.
  - 85. Attachments—
  - 86. Filling devices,
  - 87. Disinfectant devices,
  - 88. Fire-preventing,
  - 89. Frangible or fusible,
  - 90. Scrapers.
  - 91. Bail-ears—
  - 92. Wire.
  - 93. Followers.
  - 94. Handles—
  - 95. Wire,
  - 96. Holders.
  - 97. Stacking devices.
  - 98. Garbage-handling devices.

221.—DISPENSING.
- 93. Canteens and flasks.
- 1. Filling cans—
- 2. Closures—
- 3. Cap—
- 4. Screw,
- 5. Spout,
- 6. Pivoted,
- 7. Screw—
- 8. Plug,
- 9. Jackets,
- 11. Nozzles—
- 12. Cut-offs—
- 13. Automatic—
- 14. Spring—
- 15. Pull,
- 16. Push,
- 17. Vents,
- 18. Detachable,
- 19. Rotary—
- 20. Vented,
- 22. Screw,
- 21. Slide,
- 23. Detachable—
- 24. Reversing,
- 25. Flexible tube,
- 26. Pivoted,
- 27. Sliding,
- 28. Vented,
- 31. Vents.
- 32. Hand-oilers—
- 33. Attachments,
- 34. Bottom springs,
- 35. Compartment,
- 36. Drip-catchers—
- 37. Return—
- 38. Valved,
- 39. Vents,
- 40. Droppers,
- 41. Feed-controllers—
- 42. Automatic,
- 43. Bottom,
- 44. Spout,
- 45. Stem—
- 46. Lever,
- 47. Forced feed—
- 48. Bottom-actuated,
- 49. Bulb,
- 50. Nozzle-actuated,
- 51. Pump—
- 52. Air,
- 54. Holders—
- Rod,

221.—DISPENSING—Continued.
- Hand-oilers—Continued.
  - 55. Illuminating,
  - 56. Spouts—
  - 57. Cleaning-pins,
  - 58. Closing-caps,
  - 59. Vented.
  - 118. Hopper-discharging—
  - 127. Charge retaining and releasing,
  - 125. Discharger wiping and clearing—
  - 126. Sliding discharge-plate,
  - 120. Discharging and agitating,
  - 121. Discharging and guiding,
  - 128. Endless-conveyer type,
  - 119. Manually-operated implements,
  - 122. Multiple discharging,
  - 124. Pneumatic,
  - 123. Revolving hopper,
  - 130. Rotary—
  - 138. Axial discharge—
  - 139. Horizontally pivoted—
  - 140. Variable,
  - 141. Variable,
  - 134. Centripetal sweep,
  - 135. Charge-lifting,
  - 131. Interchangeable,
  - 132. Movable blade,
  - 133. Picking,
  - 136. Radial discharge—
  - 137. Variable,
  - 129. Screw-conveyer type,
  - 142. Sliding discharge-plate—
  - 143. Variable.
  - 94. Liquid-soap containers.
  - 60. Paint-tubes.
  - 61. Powder-cans—
  - 62. Cut-offs—
  - 64. Rotary,
  - 65. Receiving-pockets,
  - 66. Rotary stirrers.
  - 95. Predetermined bulk—
  - 97. Dipping operation,
  - 102. Force discharge—
  - 103. Variable,
  - 101. Meter-actuated cut-off,
  - 96. Proportional,
  - 99. Pump-supply—
  - 100. Variable,
  - Rotary trap-chamber—
  - 108. Axial feed—
  - 109. Variable,
  - 106. Radial feed—
  - 107. Variable,
  - 104. Sliding trap-chamber—
  - 105. Variable,
  - Stationary trap-chamber—
  - 110. Two independent cut-offs—
  - 111. Variable,
  - 112. Two non-rigidly-connected cut-offs—
  - 113. Variable,
  - 116. Unitary rotary two-way cut-off—
  - 117. Variable,
  - 114. Unitary sliding two-way cut-off—
  - 115. Variable,
  - 98. Tipping operation.
  - 67. Tanks—
  - 68. Cabinets,
  - 69. Drainers—
  - 70. Covered,
  - 71. Cup,
  - 72. Pump—
  - 73. Covered,
  - 73.5. Compressed air or gas,
  - Pressure—
  - 74. Air—
  - 75. Blow,
  - 76. Bulb,
  - 77. Pump,
  - 78. Followers—
  - 79. Screw,
  - 80. Pump—
  - 81. Covered,
  - 82. Lift—
  - 83. Removable,
  - 84. Nozzle,
  - 85. Removable,
  - 86. Return-suction.

222.—HYDRAULIC CEMENT AND LIME.
- 3. Kilns—
- 5. Attachments,
- 6. Gypsum,
- 7. Rotary.
- 4. Lime.

223.—APPAREL APPARATUS.
- 55. Collar, cuff, and bosom machines.
- 56. Combined spool and implement holders—
- 57. Stands.
- 4. Corset-stiffeners, making.
- 14. Darning-lasts.
- 15. Folders.
- 17. Garment-formers.
- 18. Garment-forms.
- 19. Garment-stretchers.
- 20. Garment-turners.
- Hat-machines—
- 21. Blocks,
- 22. Brim-curlers,
- 23. Brim-heaters,
- 24. Brim-trimmers,
- 25. Brim-wirers,
- 26. Cleaners,
- 27. Finishers,
- 28. Ironers,
- 29. Pinners,
- 30. Pouncers,
- 31. Shapers,
- 32. Sizers,
- 33. Stretchers,
- 34. Sweat-flangers.
- 58. Implement-holders—
- 60. Needle or pin.
- 59. Miscellaneous.
- 36. Needle-threaders.
- 37. Needles—
- 38. Tape.
- 39. Plaiters—
- 40. Boards,
- 41. Creasers,
- 42. Fluters,
- 43. Slotted bed,
- 44. Vibrating blade,
- 45. Wavers.
- 51. Thimbles.
- 52. Trimmings, making.
- 53. Work-boxes.
- 54. Work-holders.

224.—PACKAGE AND ARTICLE CARRIERS.*
- 0.5. Miscellaneous.
- 1. Weapon—
- 2. Sheaths and scabbards—
- 3. Hangers.
- 4. Watch and clock.
- 5. Body and belt attached—
- 6. Baby or patient,
- 7. Game,
- 8. Knapsack—
- 9. Convertible—
- 10. Tent,
- 11. Slings with belts,
- 12. Slings,
- 13. Cartridge—
- 14. Garment-attached,
- 15. Magazine—
- 16. Longitudinal feed,
- 17. Compartment,
- 18. Revolving,
- 19. Tilting pocket,
- 20. Block-cell,
- 21. Individual holders,
- 22. Belt or sling—
- 23. Loop and pocket holders—
- 24. Skeleton,
- 26. Bag, case, or frame—
- 27. Chatelaine,
- 28. Hand or wrist attached,
- 25. Bracket.
- 29. Vehicle—
- 29.5. Railway-car,
- 30. Bicycle—
- 31. Convertible and combined,
- 32. Receivers—
- 33. Collapsible frame,
- 34. Wrapper,
- 35. Forward-reach supported,
- 36. Handle-bar supported,
- 37. Spring-holders—
- 38. Frame,
- 39. Bracket—
- 40. Folding,
- 41. Handle-bar supported,
- 42. Hooks.
- 43. Saddle-bags—
- 44. Traveling-bag.
- 45. Hand—
- 46. Convertible and combined,
- 47. Traveling-bag,
- 48. Tray,
- 49. Sling,

* See Definitions of Revised Classes.

224.—PACKAGE AND ARTICLE CARRIERS—Continued.
- **Hand**—Continued.
  - 50. Handle and clamping plates—
  - 51. Strap-tightener,
  - 52. Handle, bar, and strap—
  - 53. Harness,
  - 54. Strap-tightener,
  - 55. Handle and strap—
  - 56. Cord or chain—
  - 57. Cord-hook,
  - 58. Strap-loop.

225.—DISPENSING BEVERAGES.
- 1. **Beer apparatus**—
- 2. Barrel-taps—
- 3. Draft-tube,
- 4. Driving-tools—
- 41. Faucets—
- 43. Bung-holding,
- 42. Screw-bung,
- 5. Faucets—
- 6. Foam,
- 7. Pump,
- 8. Foam-separators—
- 9. Settling-chambers,
- 10. Followers—
- 11. Collapsible,
- 12. Pipe-cleaners—
- 13. By-pass,
- 14. Hot water,
- Pressure—
- 15. Air—
- 16. Pump,
- 17. Gas—
- 18. Attached chamber,
- 19. Pump,
- 20. Vents.
- 40. **Cooler type.**
- 21. **Soda-water apparatus**—
- 22. Bottle-taps,
- 23. Faucets—
- 24. Foam—
- 25. Rotary valve,
- 26. Mixing,
- 27. Nozzles,
- 28. Fountains—
- 29. Casings,
- 30. Pressure-reducers,
- 31. Pump,
- 32. Syrup-cocks—
- 34. Rotary,
- 35. Syrup-tanks—
- 36. Removable—
- 37. Sliding,
- 38. Swinging,
- 39. Valves.

226.—FILLING AND CLOSING PORTABLE RECEPTACLES.*
- 1. **With articles and fluent materials.**
- 2. **With articles**—
- 3. Bobbins and cops,
- 4. Match-books,
- 5. Cigarettes,
- 6. Toothpicks,
- 7. Matches—
- 8. Filling and closing—
- 9. Separate fill and cover stations—
- 10. Measured charge,
- 11. Filling—
- 12. Measured charge,
- 13. Closing,
- 14. Layers and columns—
- 15. Cans,
- 16. Lowered support or raised wall,
- 17. Facing,
- 18. Inserted form, guide, or support.
- **With fluent materials**—
- 19. Special types—
- 20. Gas,
- 21. Immersion,
- 22. Overload,
- 23. Uniform density—
- 24. Receding receptacle-support—
- 25. Rotary packer,
- 26. Siphon tube,

226.—FILLING AND CLOSING PORTABLE RECEPTACLES—Con.
- **With fluent materials**—Con.
  - Special types—Continued.
    - 27. Inverted receptacle—
    - 28. Turnover,
    - 29. Funnels—
    - 30. Fruit-jar,
    - 31. With supports,
    - 32. With indicating means,
    - 33. Air displacement—
    - 34. Valved—
    - 35. Float-controlled valve,
    - 36. Valved—
    - 37. Float-controlled valve,
    - 38. Body structure,
    - 39. Special receptacle—
    - 40. Capsule—
    - 41. Closing feature,
    - 42. Conceal,
    - 43. Mattress—
    - 44. Inverted bat-holder,
    - 45. Belt conveyer,
    - 46. Reciprocating follower,
    - 47. Bag—
    - 48. Valved bag,
    - 49. Flat bag,
    - 50. Tube-stripping,
    - 51. Filling and closing—
    - 52. Heading,
    - 53. Sewing,
    - 54. Tying,
    - 55. Filling and agitating,
    - 56. Closing—
    - 57. Tying,
    - 58. Filling—
    - 59. Spreading hopper or form,
    - 60. Scoop type,
    - 61. Successive bags,
    - 62. Siphon-bottle,
    - 63. Fountain-pen,
    - 64. Ball-stopper bottle,
    - 65. Pull-stopper bottle,
    - 66. General types—
    - 67. With safety-screen,
    - 68. With means for treatment—
    - 69. Of material—
    - 70. Heating or cooling,
    - 71. Compacting,
    - 72. Agitating,
    - 73. Filling and closing—
    - 74. Rotary closing,
    - 75. Separate fill and close stations—
    - 76. Closure-inserting,
    - 77. Single fill and close station—
    - 78. Closure-inserting—
    - 79. Closure-feed,
    - 80. Closing—
    - 81. Special-closure applying,
    - 82. Hermetic,
    - 83. Closure applying and conforming—
    - 84. Die—
    - 85. Fillers and forcers,
    - 86. Sectional,
    - 87. Rotary tool,
    - 88. Screw-closure applying,
    - 89. Closure-inserting,
    - 90. Closure-compressing—
    - 91. Closure-feeding,
    - 92. Closure-feeding,
    - 93. Filling—
    - 94. Successive receptacles—
    - 95. Positioning-conveyer—
    - 96. Rotary—
    - 97. Feed-controlling movement—
    - 98. Air displacement,
    - 99. Feed-controlling movement,
    - 100. With plural materials,
    - 101. Charge-forming,
    - Predetermined bulk—
    - 102. Traveling measure—
    - 103. Charge-ejecting,
    - 104. Charge-pouring,
    - 105. Stationary measure—
    - 106. Displacer,
    - 107. Charge-ejecting,
    - 108. Double cut-off,
    - 109. Air displacement—
    - 110. Piston-driven positioning means,
    - 111. Pressure-controlled feed-valve,
    - 112. Force-feed,
    - 113. Pressure and overflow—
    - 114. Overflow-check,

226.—FILLING AND CLOSING PORTABLE RECEPTACLES—Con
- **With fluent materials**—Con.
  - General types—Continued.
    - Filling—Continued.
      - Air displacement—Con.
        - 115. Pressure—
        - 116. Vacuum,
        - 117. Air-pressure relief-valve—
        - 118. Supply-float controlled,
        - 119. Overflow—
        - 120. Feed-cut-off controlling,
        - 121. Overflow-check,
        - 122. Feed cut-off—
        - 123. Receptacle-movement controlled—
        - 124. Parallel,
        - 125. Force-feed,
        - 126. Feed cut-off—
        - 127. Automatic,
        - 128. Receptacle-movement controlled.
    - 129. **Accessories.**

227.—FIRE-ESCAPES.
- 5. **Balcony.**
- 6. **Body-catchers.**
- 7. **Chutes.**
- 8. **Climbers.**
- 9. **Convertible furniture.**
- 10. **Endless carriers.**
- 11. **Fire-escapes.**
- 12. **Guided hoists.**
- 13. **Hand-protectors.**
- 14. **Hoist-rope-supporting trolley.**
- 15. **Lazy-tongs**—
- 16. Rack and pinion,
- 17. Screw,
- 18. Windlass.
- 19. **Parachutes.**
- 20. **Portable spars and towers.**
- 22. **Reel.**
- **Rope-brakes**—
- 28. Tortuous,
- 29. Tortuous and grip,
- 30. Tortuous and screw-operated grip.
- 25. **Rope-brakes, grip-jaw**—
- 26. Screw-operated,
- 27. Wedge.
- 31. **Shooting-lines.**
- 32. **Sliding-poles.**
- 33. **Stairway-towers.**

228.—LADDERS.*
- 1. **Miscellaneous.**
- 2. **Convertible**—
- 3. Shutter or window-guard,
- 4. Ironing-board or washbench.
- 5. **Wheeled**—
- 6. Truck—
- 7. Separable truck-sections,
- 8. Power-operated,
- 9. Hoisting—
- 10. Spring-power,
- 11. Cable and windlass,
- 12. Gearing—
- 13. Screw,
- 14. Turn-tables,
- 15. Propped—
- 16. Hand-truck.
- 17. **With platforms.**
- 18. **Extension**—
- 19. Operating mechanisms—
- 20. Cable and windlass,
- 21. Propped—
- 22. Trestle type,
- 23. Hinged sections—
- 24. Propped,
- 25. Separable sections—
- 26. Propped.
- 27. **Propped**—
- 28. Group,
- 29. Stepladder type—
- 30. Storage-frame prop,
- 31. Laterally-movable props,
- 32. Tripod,
- 33. Spreaders and ties.
- 34. **Single stile**—
- 35. Flexible.
- 36. **Collapsible**—
- 37. Propped,
- 38. Slidable rungs or units,
- 39. Telescopic.

See Definitions of Revised Classes.

228.—LADDERS—Continued.
- 40. **Flexible**—
- 41. Upwardly extensible,
- 42. Receptacles,
- 43. Reels,
- 44. Jointed units.
- 45. **Attached**—
- 46. Independent rungs—
- 47. Bracket type,
- 48. Pivotally,
- 49. Railway-car,
- 50. Trap-door operated.
- 51. **Scaling.**
- 52. **Trolley**—
- 53. Store-service.
- 54. **Ship's-ladder type.**
- 55. **Tubular.**
- 56. **Metallic.**
- 57. **Knockdown.**
- 58. **Structural details**—
- 59. Reinforcing.
- 60. **Attachments**—
- 61. Terminals and feet—
- 62. Pads,
- 63. Extensible,
- 64. Stands,
- 65. Stops—
- 66. Hook type,
- 67. Guards,
- 68. Hinges.

229.—PAPER RECEPTACLES.*
- 16. **Folded blank boxes**—
- 24. Buckets—
- 25. Closures—
- 26. Integral cover,
- 30. **Trays**—
- 31. Corner-folds,
- 32. Corner-flaps—
- 33. Cover extension,
- 34. Infolding side,
- 35. Interlocking—
- 36. Cover extension,
- 37. Tubes—
- 38. Closures, inserted flaps—
- 39. Interlocking,
- 40. Wrappers,
- 19. Slide—
- 20. Dispensing,
- 27. Compartment—
- 28. Cells—
- 29. Wrapper,
- 17. Dispensing,
- 23. Multiple,
- 18. Sectors,
- 22. Triangular,
- 21. Cylindrical.
- 6. **Boxes**—
- 8.5. Savings,
- 9. Slide—
- 10. Compartment,
- 11. Dispensing,
- 15. Compartment,
- 42. Division-plates,
- 7. Dispensing,
- 8. Ornamental,
- 12. Cylindrical—
- 13. Pressed bottoms and tops,
- 14. Lined,
- 41. Collapsible,
- 43. Closures—
- 44. Hinged,
- 45. Fasteners—
- 46. Cord,
- 47. Metallic,
- 51. Openers, ripping,
- 52. Handles,
- 48. Seams,
- 49. Stays—
- 50. Cord.
- 53. **Bags**—
- 54. Satchel,
- 55. Reinforced,
- 56. Compartment,
- 57. Bottoms—
- 58. Square—
- 59. Corner-slits,
- 60. Diamond-fold,
- 61. Seamless,
- 62. Closures—
- 63. Cord,
- 64. Fluted,
- 65. Metallic,
- 66. Opening.
- 68. **Envelope**—
- 69. Series,
- 70. Coupon,
- 71. Display,
- 72. Compartment,
- 73. Return,

229.—PAPER RECEPTACLES—Con.
Envelope—Continued.
- 74. Tag,
- 75. Blanks,
- 76. Closures—
- 77. Fasteners—
- 78. Metallic,
- 79. Seal,
- 80. Sealing—
- 81. Perforated,
- 82. Tongues,
- 83. Soluble dye,
- 84. Tongue,
- 85. Openers—
- 86. Cord.
- 87. **Wrappers**—
- 87.5. Pocketed,
- 88. Bag,
- 89. Bottle—
- 90. Corrugated,
- 91. Padded,
- 92. Mailing-sheets.
- 92.1. Letter-sheets—
- 92.3. Display,
- Closures—
- 92.5. Fasteners,
- 92.7. Flap.
- 92.9. **Coin-cards.**
- 93. **Tubes, cylindrical.**
- 67. **Barrels.**
- 1. **Vessels**—
- 2. Angular,
- 3. Cylindrical—
- 4. Pressed,
- 5. Liquid-proofed.

230.—AIR AND GAS PUMPS.
- 35. **Air-motors**—
- 36. Bellows,
- 37. Convertible motor and pump.
- 1. **Automatic fans.**
- 2. **Bellows.**
- 3. **Bulb.**
- 4. **Collapsible tube.**
- 6. **Cooling and sealing.**
- 5. **Diaphragm.**
- 7. **Fan attachments**—
- 8. Bellows,
- 9. Flywheel,
- 10. Treadle.
- 11. **Fan-blowers.**
- **Fluid piston**—
- 12. Endless channel,
- 13. Injectors and aspirators—
- 15. Fall-tube,
- 14. Rotary,
- 38. Tube-cleaners,
- 16. Reciprocating piston,
- 17. Tank and bell,
- 18. Tank and float,
- 19. Tank and hand-valve,
- 20. Tank and overflow-valve,
- 21. Tank and pressure-valve,
- 22. Tank and vane,
- 23. Tilting tank.
- 24. **Pressure control.**
- 25. **Receivers.**
- 26. **Sand-blowers.**
- **Solid piston**—
- 27. Rectilinear—
- 28. Hydraulic motor,
- 29. Oscillating,
- 30. Rotary—
- 31. Rectilinear.
- 32. **Systems.**
- 33. **Toilet-fans.**
- 34. **Valves and valve-gear.**

231.—WHIPS AND WHIP APPARATUS.*
- 1. **Whip-machines.**
- 2. **Whips**—
- 3. Convertible whips and canes,
- 4. Lashes,
- 5. Lash and snap fastenings,
- 6. Caps, buttons, and joints.

232.—DEPOSIT AND COLLECTION RECEPTACLES.*
- 1. **Miscellaneous.**
- 2. **Ballot-boxes**—
- 3. Ball.

232.—DEPOSIT AND COLLECTION RECEPTACLES—Continued.
- 4. **Savings-boxes**—
- 5. Inspection,
- 6. Frame-fastenings.
- 7. **Fare-boxes**—
- 8. Ticket punching and canceling,
- 9. Multiple coin slot and runway,
- 10. Ticket and change,
- 11. Ticket, car,
- 12. Receivers,
- 13. Illumination,
- 14. Change-gates,
- Collection devices—
- 15. Safety-receptacle—
- 16. Auxiliary.
- 17. **Letter-boxes**—
- 18. Ticket registers and recorders,
- 19. House—
- 20. Collection and delivery—
- 21. Compartment,
- 22. Door or window jamb,
- 23. Inside fastener,
- 24. Compartment—
- 25. Coöperative closures—
- 26. Distributing-guide,
- 27. Collection and delivery,
- 28. Pivoted receiver,
- 29. Auxiliary, coöperating,
- 30. Collection devices—
- 31. Safety-receptacle—
- 32. Auxiliary,
- 33. Package clips and pockets,
- Signals—
- 34. Sight—
- 35. Door-controlled,
- Sound—
- 36. Door-controlled,
- Indicators—
- 37. Door-operated,
- 38. Frame construction,
- 39. Supports and fastenings—
- 40. Movably attached.
- 41. **Milk-receptacles**—
- 42. Door or window jamb,
- 43. Funnel-filler.
- 44. **Closures and chutes**—
- 45. Letter-box—
- 46. Name-plate,
- 47. Pivoted trap—
- 48. Double,
- 49. Pocket—
- 50. Bottomless,
- 51. Integral door,
- 52. Turnstile,
- 53. Discharge,
- 54. Guard-fingers,
- 55. Coin-trap—
- 56. Endless carrier,
- 57. Pivoted—
- 57.5. Refunding,
- 58. Coöperating chute-closure—
- 59. Multiple trap,
- 60. Rotatable—
- 61. Turnstile,
- 62. Gravity reverse-checks,
- 63. Serrated shelves.

233.—CENTRIFUGAL-BOWL SEPARATORS.*
- 1. **Miscellaneous.**
- 2. **With filtering.**
- 3. **With agitating or conveying**—
- 4. Outside of bowl,
- 5. Vibratable shell,
- 6. Rotary and reciprocating stirrer,
- 7. Rotary stirrer—
- 8. Current-actuated,
- 9. Expansible,
- 10. Stationary stirrer.
- 11. **With heat exchange.**
- 12. **With fluid treatment**—
- 13. Gas,
- 14. Liquid—
- 15. Opposed flow.
- 16. **With fluid distribution**—
- 17. Multiple separator—
- 18. Successive,
- 19. Controlling—
- 20. Bowl-valve,
- 21. Conducting or receiving—
- 22. Movable receiver.
- 23. **With power transmission**—
- 24. Motor,
- 25. Planetary movement,
- 26. Test-tube and bottle holding,

* See Definitions of Revised Classes.

233.—CENTRIFUGAL-BOWL SEPARATORS—Continued.
- 27. **Separators—**
- 28. Receiving, distributing, and discharging—
- 29. Non-radial distributing-plate—
- 30. Longitudinal—
- 31. Concentric,
- 32. Radial distributing-plate—
- 33. Longitudinal,
- 34. Receiving and distributing—
- 35. Non-radial distributing-plate—
- 36. Longitudinal—
- 37. Concentric,
- 38. Distributing and discharging—
- 39. Non-radial distributing-plate,
- 40. Distributing—
- 41. Non-radial distributing-plate—
- 42. Longitudinal—
- 43. Concentric,
- 44. Radial distributing-plate,
- 45. Receiving,
- 46. Discharging—
- 47. Exits.

234.—RECORDERS.*
- 1. **Miscellaneous.**
- 2. **Combined recorders and registers—**
- Fare—
- 3. Individual record,
- 4. Total record,
- 5. Speed.
- 9. **Fare—**
- 9.5. Electric.
- 12. **Passenger—**
- 13. Gate,
- 14. Seat,
- 15. Step,
- 12.5. Electric.
- 8. **Cartographic.**
- 26. **Ship's course—**
- 26.5. Electric.
- 5.5. **Electric meter.**
- 33.5. **Telephone.**
- 21. **Steam-engine indicators—**
- 22. Bourdon type,
- 23. Drum,
- 24. Engine connections,
- 25. Indicator-cylinder.
- 27. **Signal—**
- 27.5. Electric.
- 7. **Anemometer.**
- 6. **Combined readings.**
- 10. **Float.**
- 28. **Specific gravity.**
- 29. **Speed—**
- Shaft—
- 30. Continuous record—
- 31. Governor-controlled,
- 32. Uniform amplitude,
- 33. Intermittent record,
- 29.5. Electric.
- 34. **Volume—**
- 34.5. Electric,
- 35. Meter-readings.
- **Time-stamps—**
- Dial—
- 54. Movable dial,
- 55. Movable platen,
- Drum—
- 56. Movable drum,
- 57. Movable platen,
- 53.5. Electric.
- 36. **Time—**
- Watchmen's—
- 37. Miscellaneous,
- Stationary record—
- 38. Time-operated marker,
- Time-operated record—
- 39. Multiple key,
- 40. Single key,
- 37.5. Electric—
- 37.6. Receivers,
- Workmen's—
- 41. Miscellaneous,
- 42. Check-receivers,
- Individual card—
- 43. Time impression,
- Intermittently-movable record—
- Time-printing wheel—
- 44. Autographic,
- 45. Check-operated,
- Individual record—
- 46. Single impression,
- 47. Printing-key—
- 48. Operating-lever,

234.—RECORDERS—Continued.
- **Time**—Continued.
- Workmen's—Continued.
- Time-operated record—
- 49. Autographic,
- Individual record—
- 50. Single impression—
- 51. Printing-key,
- 52. Tag-operated marker,
- 53. Wage-computers,
- 41.5. Electric,
- 36.5. Electric.
- 11. **Heat.**
- 17. **Pressure—**
- 18. Air-brake,
- Gage—
- 19. Disk,
- 20. Drum,
- 1.5. **Electric.**

235.—REGISTERS.*
- 1. **Miscellaneous.**
- 2. **Cash registers and recorders—**
- 3. Check-printing.
- 4. **Cash-recorders—**
- 5. Manual.
- 7. **Cash-registers—**
- 6. Departmental,
- 8. Key-set—
- 9. Crank-operated,
- 10. Drawer-operated,
- 11. Motor-operated,
- 12. Key-operated—
- 13. Detail-adders,
- 14. Differential mechanism—
- 15. Key-coupled,
- 16. Lost-motion mechansim,
- 17. Checks—
- 18. Balls,
- 19. Dial—
- 20. Independent indicator,
- 21. Lever-operated,
- 22. Drawer-operating mechanism,
- 23. Indicator mechanism—
- 24. Shutters,
- 25. Tablet-droppers,
- 26. Key-arresters,
- 27. Key-locks,
- 28. Lid-registers.
- 33. **Fare-registers—**
- 29. Multiple,
- 30. Cab-fare indicating,
- 31. Ticket-delivery,
- 32. Registering-boxes,
- 34. Dial and cylinder,
- 35. Belt,
- 36. Parallel axes—
- 37. Cylinder,
- 38. Dial and hand,
- 39. Disk,
- 40. Single axis—
- 41. Concentric disk,
- 42. Cylinder,
- 43. Dial and hand,
- 44. Operating devices—
- 45. Electric,
- 46. Punch,
- 47. Resetting—
- 48. Direction-indicator,
- 49. Hundreds-indicator.
- 51. **Voting-machines—**
- 50. Recording,
- 52. Assembly,
- 53. Check-operated,
- 54. Key-set,
- 55. Key-operated,
- 56. Vote-counters.
- 57. **Registering ballot-boxes.**
- 61. **Calculators—**
- 58. Recording—
- 59. Key-operated,
- 60. Key-set,
- 62. Motor-actuated,
- 63. Traveling carriage,
- 64. Adding-pencils,
- 65. Bar and disk,
- 66. Cylinder and disk,
- 67. Spiral,
- 68. Ball,
- 69. Bar—
- 70. Slide-rules,
- 71. Belt,
- 72. Parallel axes—
- 73. Cylinder,
- 74. Disk—
- 75. Key-operated,
- 76. Gear,

235.—REGISTERS—Continued.
- **Calculators**—Continued.
- 77. Single axis—
- 78. Concentric disk,
- 79. Cylinder—
- 80. Keyless—
- 81. Lever-operated,
- 82. Key-operated,
- 83. Disk—
- 84. Slide-rules,
- 85. Tabular—
- 86. Belt,
- 87. Cylinder,
- 88. Disk,
- 89. Sheet.
- 90. **Game-boards.**
- 102. **Typewriter word-counters.**
- 94. **Liquid-registers.**
- 98. **Package-operated.**
- 100. **Registering-boxes.**
- 99. **Platform-operated.**
- 101. **Stamp.**
- 93. **Gate and turnstile operated.**
- 95. **Odometers—**
- 96. Details,
- 97. Trip and total.
- 103. **Rotation-counters—**
- 103.5. Comparing,
- 104. Timing devices.
- 105. **Pedometers.**
- 123 **Ball or button indicator.**
- 124. **Bar and scale.**
- 125. **Belt.**
- 127. **Pivoted indicator.**
- 106. **Angled axes.**
- 107. **Spiral.**
- 108. **Parallel axes—**
- 109. Gear,
- 110. Cylinder,
- 111. Dial and disk,
- 112. Dial and hand,
- 113. Disk—
- 114. Hand-operated.
- 115. **Single axis—**
- 116. Concentric disk,
- 117. Cylinder—
- 118. Single cylinder,
- 119. Differential gears,
- Dial and hand—
- 120. Multiple hand,
- 121. Single hand,
- 122. Disk.
- 92. **Electrically operated.**
- 91. **Operating devices.**
- 128. **Alarm mechanism.**
- 129. **Full-stroke mechanism.**
- 130 **Locking mechanism.**
- 131. **Overthrow-preventers.**
- 132. **Stop mechanism.**
- 133. **Transfer mechanism—**
- 134. Cam and lever,
- 135. Deep notch,
- 136. Differential gears,
- 137. Independent actuator—
- 138. Successive,
- 139. Intermediate pinion,
- 140. Side tooth—
- 141. Lock,
- 142. Traveling pawl—
- 143. Side action.
- 144. **Zero-setting devices.**

236.—AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION.*
- 1. **Miscellaneous.**
- 2. **Incubator type of heater—**
- 3. Electric,
- Thermostatic—
- 4. Expanding fluid,
- 5. Expanding solid.
- 6. **Brooder type of heater.**
- 7. **Sadiron type.**
- 8. **Atomizer type of burner.**
- 9. **Combined heater and apartment controlled.**
- 10. **Hot-air furnace—**
- 11. Air and fire control.
- 12. **Fluid-mixers—**
- 13. Plenum type.
- 14. **Combined boiler and furnace controlled.**
- 15. **Furnace-controlled.**
- 16. **Combined draft and check control.**
- **Exchange-heaters—**
- 17. Pressure-operated,
- Thermostatic—
- 18. Expanding fluid,
- 19. Expanding solid.

* See Definitions of Revised Classes.

236.—AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION—Continued.

20. **Closed fluid-heaters**—
21. Safety cut-out,
22. Radiator type,
Combined thermostat and flow controlled—
23. One valve,
24. Two or more valves,
25. Flow-controlled,
26. Pressure-operated—
27. With balancing pressure-chamber,
28. Stroke-retarding,
29. Relay, puppet,
30. Bourdon type,
31. Float,
Thermostatic—
32. Expanding fluid,
33. Expanding solid.
34. **Cooling-radiator**—
35. Air control.
36. **Heating-radiator**—
37. Combined radiator and apartment controlled,
38. Air control,
Exhaust-operated—
Fluid-operated motor—
39. Aspirator,
40. Thermostatic—
41. With trap,
Thermostatic—
42. Expanding fluid,
43. Expanding solid.
44. **Humidity control.**
45. **Draft-operated.**
46. **With timing element.**
47. **High and low temperature alternate.**
48. **Snap-acting.**
49. **Ventilators.**
50. **Liquid-valve.**
51. **Distance-adjusted.**
52. **Float-operated.**
Traps—
Float-valve—
53. Thermostatic air-valve,
Pressure-operated valve—
54. Thermostatic pilot,
Thermostatic—
55. With float-controlled pilot,
56. Expanding fluid—
57. Bourdon type,
58. Wafer type,
59. Expanding solid—
60. Conduit.
Air-relief valves—
Radiator type—
Thermostatic—
61. With pressure control,
62. With separate float,
63. Expanding float,
64. Expanding fluid—
65. Float-operated,
66. Expanding solid.
67. **Motors**—
Relay—
68. Auxiliary heater,
69. Pyrometer-galvanometer—
70. With heating element,
71. Balanced—
72. Thermostatic relay,
73. Continuous drive,
74. Electric—
75. Reciprocating or oscillating,
76. Step by step,
77. Vibrating arm,
78. Relay,
Fluid-operated—
79. Relay—
80. Shunt,
81. Snap-acting,
82. Compound—
83. Snap-acting,
84. Electric,
85. Pressure-operated,
Thermostatic—
86. Expanding fluid,
87. Expanding solid,
88. **Magnetic release**—
89. Safety-cut-out,
90. Thermal release.
Thermostatic—
91. Hot and cold,
92. With pressure control,
93. In fluid controlled,
94. With indicator or alarm,
Flue or heater attached—
95. Expanding fluid,
96. Expanding solid,
97. Cooled element,
98. Fluid transmission,

236.—AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION—Continued.

Thermostatic—Continued.
99. Expanding fluid—
100. Float or piston operation,
101. Expanding solid—
102. Concentric elements,
103. Conduit,
104. Fire-pot.

237.—HEATING SYSTEMS.*

1. **Miscellaneous.**
2. **Automatic control**—
3. Brooder and incubator—
4. Water,
5. Car—
6. Steam,
7. Combined radiator and boiler,
8. Water,
9. Steam—
10. Gas-displaced,
11. Compressed air,
12. Processes.
12.1. **Heat and power plants**—
12.2. Fire-engine,
12.3. Vehicle,
12.4. Car—
12.5. Smoke,
12.6. Air—
12.7. Radiator,
12.8. Steam.
13. **Plants.**
14. **Brooder and incubator**—
15. Water.
16. **Combined radiator and boiler**—
17. Fluid fuel,
18. Solid fuel.
19. **Combined with water-heater.**
28. **Car**—
29. Stove—
30. Air-casing,
31. Depending,
32. Fluid fuel—
33. Radiator,
34. Water—
35. Car-boiler—
36. Fluid fuel,
37. Train-steam—
38. Injected,
39. Train-steam,
40. Steam—
41. Car-boiler—
42. Train-steam,
43. Heated floor,
44. Heat-accumulator,
45. Incased radiator.
60. **Heated floor.**
46. **Ventilating**—
47. Stove,
48. Furnace,
49. Inclosed radiator.
50. **Air**—
51. Fireplace,
52. Stove,
53. Furnace,
54. Upper-room drum,
55. Flue-heated.
56. **Water**—
57. Fluid fuel,
58. Steam,
59. Circulation—
60. Geyser-boiler,
61. Auxiliary boiler,
62. Boiler-loop,
63. Pump—
64. Steam-displacing,
65. Pressure-regulator,
66. Expansion-tanks.
67. **Steam**—
68. Air-discharge.
70. **Heat-radiators**—
71. Water, steam—
72. Injected,
73. Steam—
74. Circuit,
75. Heat-accumulator,
76. Ceramic,
77. Foot-warmer,
78. Air-moistener,
79. Shields.
80. **Antifreezing devices.**
81. **Processes.**

238.—RAILWAYS, SURFACE TRACK.*

1. **Miscellaneous.**
2. **Road-bed**—
3. Highway-track—
4. Metallic,
5. Concrete,
6. Continuous—
7. Concrete,
8. Street-crossing,
9. Rail-paving.
10. **Portable track**—
11. Embankment or fill,
12. Crossovers,
13. House-moving,
14. Traction-mats.
15. **Track-curves**—
16. Rollers.
17. **Guard-rails**—
18. Spring,
19. Under-main rail,
20. Two-rail chair,
21. Two-rail clamps,
22. Spacers—
23. Tapered.
24. **Stringers**—
25. Concrete,
26. Metallic.
27. **Tie arrangement**—
28. Diagonal.
29. **Ties**—
30. Forms—
31. Jointed—
32. Hinged,
33. Pivoted ends,
34. Detachable ends,
35. Multiple section,
36. Vertical sandwich,
37. Horizontal sandwich,
38. Twin,
39. Complementary sliding lock.
40. Truss—
41. Integral,
42. Stringer ends,
43. Loop or hook ends,
44. Spread ends,
45. Special—
46. Rail-joint,
47. Bridge-joint,
48. Spring,
49. Old rail,
50. Rods—
51. Rail-base,
52. Turnbuckle,
53. Screw-rod,
54. Cross-section—
55. Two-part—
56. Channels,
57. I-beam,
58. Angles or T's,
59. Channel-flange down—
60. Sheet-metal,
61. Rolled,
62. Channel-flange up—
63. Sheet metal,
64. Rolled,
65. I-beam—
66. Rolled,
67. T—
68. Cast,
69. Inverted,
70. Tubular—
71. Multiple,
72. Rectangular—
73. Vertical telescope,
74. Separate lid and bottom
75. Separate bottom,
76. Separate lid,
77. Folded sheet,
78. Integral—
79. Cast,
80. Triangular,
81. Circular,
82. Corrugated,
83. Nonmetallic—
84. Plastic compound—
85. Internal reinforcements—
86. Truss,
87. Tube,
88. Cast,
89. Rolled section,
90. Closed loop,
91. Rods—
92. Cross-tied,
93. Foraminous sheet,
94. Wire,
95. Armored—
96. Box,
97. Tube,
98. Side and bottom,
99. Side and top,
100. Sides,
101. Top,

* See Definitions of Revised Classes.

238.—RAILWAYS, SURFACE TRACK—Continued.
Ties—Continued.
Nonmetallic—Continued.
Plastic compound—Contd.
Armored—Continued.
102. Top and bottom,
103. Bottom,
104. End closures,
105. Spacers,
106. Anchor lugs and ribs,
107. Insulation—
108. Sectional tie.
109. Pedestals—
110. Pot—
111. Cast,
112. Wrought plate—
113. Inverted U,
114. Tube or box,
115. Concrete block—
116. Chair-bar,
117. Bar-core,
118. Wood block,
119. Pier,
120. Screw.
121. Rail arrangement.
122. Rails—
123. Rack,
124. Turnout,
125. Vignoles—
126. T-base insert,
127. Channel—
128. Integral,
129. Trough and filler,
130. T-rail,
131. Webless or flat,
132. Reversible—
133. Triple head,
134. Tubular—
135. Integral,
136. Step-tread.
137. Biped,
138. Base-bar,
139. Side bars,
140. Detachable guard or step,
141. Split base and web,
142. Split tread,
143. Detachable head—
144. Lap-web,
145. Grooved web,
146. Integral grooved base,
147. Web-clamp,
148. Tread-surfaces,
149. Webs,
150. Substance,
151. Rail-joints—
152. Insulated—
153. Transverse abutting,
154. Chair—
155. Twin—
156. Base-plate or bolted,
157. Angle—
158. Weber type,
159. Splice-bars—
160. With base-plate,
161. In channel,
162. Cast on,
163. Molten filler,
164. Welded,
165. Switch-rail,
166. Pivoted,
167. Compromise,
168. Truss-rod,
169. Parallel beams,
170. Gravity,
171. Expansion-deflectors,
172. Vertical adjustment,
173. Yielding rail end,
174. Variable levels,
175. Special rails—
176. Channels,
177. T-web U-base,
178. Flat,
179. Internal key,
180. Flush web-key,
181. Web-key splice-lock,
182. Joint lug-key,
183. Integral web-key and bars,
184. Web-locks,
185. Z form—
186. Base-connected,
187. Chair—
188. Twin—
189. Base-stiffener,
190. With base-plate,
191. Base-bolted,
192. Lapping base-sections,
193. Interlocked base sections—
194. Longitudinal keys,
195. Angle—
196. Pivoted,
197. Splice-lug engagement,

238.—RAILWAYS, SURFACE TRACK—Continued.
Rail-joints—Continued.
Chair—Continued.
Angle—Continued.
198. Sliding splice-lock—
199. Base-plate underlap,
200. Weber type.
201. Transverse slide—
202. Screw-operated,
203. Horizontal wedge
204. Vertical wedge,
205. Integral—
206. Base-filler,
207. One-side filler,
208. Two-side filler,
209. Base-plate—
210. Top flange,
211. Angle-bar underlap,
212. Angle-bar overlap,
213. Base-stiffeners,
214. Distorted,
215. Center seat,
216. Rail-lock,
217. Side clips,
218. Tread-bridge—
219. Rail-head insert,
220. Rail-head cover,
221. Notched head—
222. Twin,
223. Head-section—
224. Saddle,
225. Rail-section—
226. Splice-key,
227. Spacer—
228. Expansible,
229. Web-posts,
230. Scarf—
231. Longitudinally assembled—
232. Twin,
233. With vertical drop,
234. Longitudinal or vertical
235. Vertical drop,
236. Laterally assembled—
237. Twin,
238. Longitudinal lock—
239. Twin,
240. Angularly assembled—
241. Longitudinal,
242. Lateral,
243. Splice-bars—
244. Multiple part,
245. Toggle,
246. Rail-guide—
247. Attached,
248. Rail-sleeve,
249. Longitudinal bolts,
250. Bar-lugs and splice-keys,
251. Bar-bolts and splice-key,
252. Slotted bolt-locks,
253. Bolt-keys,
254. Rail-groove swing
255. Cam-tightened,
256. U bars and loops,
257. Vertical bevel-flange,
258. Tapered,
259. Springs,
260. Fasteners—
261. Double and split keys,
262. Nut and bolt lock,
263. Adjustable joint-clamps.
264. Rail-seats—
265. With anchor in concrete,
266. English chair
267. T-rail,
268. ⊓-rail,
269. Cast—
270. With tie,
271. Plane top,
272. Wrought—
273. With tie,
274. Plane top,
275. Twin jaws—
276. Wrought,
277. Pivoted,
278. Jaw and seat,
279. Gravity,
280. Saddles,
281. Vertical adjustment,
282. Lateral adjustment,
283. Cushions—
284. Metal springs,
285. Wood blocks,
286. Spiking-blocks.
287. Tie-plates—
288. Gage,
289. Plural tie,
290. Lap—
291. Interlock,
292. Rail-brace—
293. Integral,

238.—RAILWAYS, SURFACE TRACK—Continued.
Tie-plates—Continued.
294. Spike-lock—
295. Lug on spike,
296. Pawl,
297. Anchors—
298. Integral,
299. Tie-abutting,
300. Sleeve,
301. Reversible,
302. Spring,
303. Screw-spike,
304. Top surface,
305. Rotary,
306. Rail-base seats,
307. Contour,
308. Spike-hole arrangement,
309. Spike-shank brace.
310. Fastenings—
311. Welded,
312. Protective boxes and closures,
313. Universal,
314. Yoke,
315. Rail-anchors—
316. Pawl,
317. Cam,
318. Rail-recess,
319. Rail-lug,
320. Distorted rail,
321. Tie-contact—
322. Cam,
323. Swinging clip,
324. Wedge,
325. Bevel-slide—
326. Reversed lap,
327. Twin jaws—
328. With wedge,
329. Diagonal—
330. Integral,
331. Transverse slide—
332. Screw-operated,
333. Horizontal-wedge operated,
334. Vertical-wedge operated,
335. Abutting screw-point,
336. Rail-brace—
337. Vertical slide,
338. Clamps—
339. Gage,
340. Multiple face,
341. Cam adjustment,
342. Nut type,
343. Anchors—
344. Vertical face,
345. Vertical shank,
346. Ratchet,
347. Bevel-guide,
348. Internal arm,
349. Spring,
350. Integral with tie,
351. Clip type—
352. Double,
353. Vertical wedge,
354. Horizontal wedge,
355. Hooks—
356. Pivoted,
357. Twin—
358. Through-bolt,
359. Single pivot,
360. Lever,
361. Wedges—
362. Parallel,
363. Alined,
364. Flange,
365. Locks,
366. Spikes—
367. Interlock,
368. Bent,
369. Split end,
370. Plug,
371. Socket,
372. Screw—
373. Sockets,
374. Socket and wedge,
375. Lock,
376. Ratchet,
377. Bolt anchors and sleeves,
378. U-bolts and clips.
379. Foot-guards—
380. Switch-point,
381. Wheel-depressed.
382. Deadening noise.

240.—ILLUMINATION.*
1. Miscellaneous.
2. Combined light and structure—
3. Arena,
4. Furniture,

* See Definitions of Revised Classes.

240.—**ILLUMINATION**—Continued.
Combined light and structure—Continued.
5. Oven,
6. Show-case,
7. Vehicle—
8. Combined interior and exterior,
8.4. Portable, self-contained, electric.
8.5. **Portable, self-contained, electric lamps.**
9. **Systems.**
10. **Decorative lights.**
11. **Lanterns**—
12. Barrel-illuminators,
13. Candle type,
14. Carriage,
15. Dark,
16. Jack-o'-lanterns,
17. Lamp-chimney type,
17.5. Electric safety,
18. Miners' safety—
19. Locks,
20. Photographic,
21. Ship's running-lights,
22. Signal—
23. Color-screen,
24. Rotatable,
25. Street,
26. Submarine,
27. Tubular—
28. Bases,
29. Domes,
30. Globe-operators—
31. Combined lifting and swinging,
32. Lifting,
33. Swinging,
34. Tubes,
35. Angle,
36. Collapsible;
37. Convertible,
38. Hand—
39. Color-screen,
40. Frames,
41. Projectors—
42. Bicycle,
43. Dashboard type,
44. Adjustable light or reflector,
45. Dimmers—
45.1. Color-screen,
45.2. Shutter-slats,
45.4. Curtain,
45.6. External pivoted,
46. Multiple beam,
48. Vibratory,
48.2. Screen—
48.4. Lens,
48.6. Bulb,
49. Revolving,
50. Bases,
51. Domes.
52. **Light-supports**—
53. Convertible,
54. Combined guard and holder,
55. Campaign-torch,
57. Vehicle—
58. Bicycle,
59. Body-attached—
60. Cap,
61. Dirigible—
62. Automatic,
63. Adjustable for trimming—
Electric—
64. Post—
65. Switch,
66. Switch,
67. Vertically adjustable—
68. Clamp,
69. Counterweight,
70. Friction,
71. Spring-drum,
Brackets—
72. Combined,
73. Electric,
74. Gaseous fuel,
75. Liquid fuel,
76. Chandeliers—
77. Combined,
78. Electric,
79. Gaseous fuel,
80. Liquid fuel,
Stands—
81. Electric,
82. Gaseous fuel,
83. Liquid fuel,
84. Posts,
85. Bracket and chandelier hangers—
86. Aro-lamp hangers,
87. Canopies,
88. Cord-supported,
89. Antislipping,

240.—**ILLUMINATION**—Continued.
Light-supports—Continued.
90. Resilient,
91. Harps.
92. **Combined light protectors and modifiers.**
93. **Combined reflectors and refractors.**
94. **Chimneys**—
96. Composite,
97. Supports—
98. Base—
99. Modified chimneys,
95. Attachments.
100. **Globes.**
102. **Guards.**
103. **Reflectors**—
104. Canopy,
105. Side.
106. **Refractors**—
107. Liquid.
108. **Shades**—
109. Canopy,
110. Side.
111. **Shade, reflector, or globe supports**—
112. Candle,
113. Drop,
114. Double clamp,
115. Top,
116. Base,
117. Adjustable and collapsible,
118. Spider.
119. **Burner-tip cleaners.**
120. **Smoke-bells.**
121. **Spark-arresters.**
122. **Switches and valves**—
123. Operators.
124. **Taps.**

241.—**GARMENT-SUPPORTERS.**
1. **Hose**—
2. Belt-attached,
3. One-point suspension,
4. Shoulder suspension.
5. **Limb-encircling**—
6. Garment-attached.
7. **Waist-line body-garment**—
9. Belt-attached,
10. Belt-inserted section,
11. Belt-slide,
8. Belts,
12. Shoulder suspension—
13. Belt-converting,
14. Binding-clips—
15. Button-loop,
16. Connection,
17. Braces combined,
18. Cast-offs,
19. Connections—
20. Lacing,
22. Self-adjusting—
23. Cord or strap,
24. Pivoted,
25. Garment attachments,
26. Step-adjusting,
27. Tabs—
28. Drawers-supports,
29. Two-point suspension,
30. Waist-formers—
31. Buckles.

242.—**WINDING AND REELING.***
1. **Miscellaneous.**
2. **Ball or mass winding**—
3. Spheroids.
4. **Ring-winding**—
5. Armatures,
6. Taping and insulating.
7. **Cylinder and conoid winding**—
8. Armatures,
9. Magnets and coils—
10. Taping and insulating,
11. Pails and pipes,
12. Axially—
13. Armatures.
16. **Spoolers**—
17. Multiple.
18. **Bobbin and cop winding**—
19. Cutting devices,
20. Sewing-machine shuttles—
21. Cutting devices,
22. Stops,
23. Disk type,
24. Thread pressers and pads,

242.—**WINDING AND REELING**—Contd.
Bobbin and cop winding—Con.
25. Wire,
26. Symmetrical layers,
27. Cone-wind—
28. Detectors and stops—
29. Thread break or exhaust,
30. Load,
31. Quick traverse,
32. Multiple,
34. Pressers and shapers,
35. Spindles and appurtenances,
36. Detectors and stops—
37. Thread break or exhaust—
38. Doubling-machines,
39. Load—
40. Doubling-machines,
41. Ejectors,
42. Doubling-machines,
43. Quick traverse,
43.3. Building mechanisms—
43.4 Warp-wind,
43.5. Weft-wind—
43.6. Varying traverse and gain,
43.7. Varying traverse,
44. Multiple,
45. Tension devices,
46. Spool and bobbin lifters,
46.2. Driving connections—
46.3. Cop-tube,
46.4. Clutch—
46.5. Centrifugal,
46.6. Resilient head,
46.7. Resilient socket—
46.8. Coil-spring.
47. **Cordage**—
48. Cutting devices,
49. Detectors and stops,
50. Cards, boards, and forms,
51. Heddle and seine needles,
52. Tatting-shuttles,
53. Hank and skein winding.
54. **Reeling and unreeling**—
55. Fabrics—
56. Cutting devices,
57. Detectors and stops,
58. Web-roll supply,
59. Lapped or butted lengths,
60. Bandage-rolling,
61. Cards, boards, and forms,
62. Cloth,
63. Automatically - contracting reel,
64. Revoluble reel-carriers,
65. Friction-drum drive—
66. Multiple drum,
67. Belt-reels,
68. Cores and holders—
69. Note-sheet rolls,
70. Ribbon and film spools—
71. Camera,
72. Contractile—
73. Lengthwise,
74. Web-fasteners,
75. Tension devices,
76. Guards and guides,
77. Reels—
78. Metal-working—
79. Coil-conveying,
80. Multiple,
81. Coil-stripping,
82. Revoluble coiler,
83. Receptacle,
84. Retractile arm,
84.1. Fishing-rod type—
84.2. Signal,
84.3. Spring-operated,
84.4. Line-traverser,
84.5. Brake and drag—
84.6. Clicker,
84.7. Releaser,
84.8. Tape-measure type—
84.9. Spring-drum,
85. Carriers—
86. Hose—
87. Wheeled—
88. Automatic winders,
89. Loop-attached,
90. Wheeled—
91. Automatic winders—
92. Guides,
93. Guides,
94. Trundle-reels,
95. Wheel-attached,
96. Hand or body—
97. Casing,
98. Spring - drum article-holders,
99. Brakes,
100. Clothesline type—
101. Casing,
102. Spring-drum,
103. Nailing and stapling,
104. Line-driers,

* See Definitions of Revised Classes.

242.—WINDING AND REELING—Contd.
Reeling and unreeling—Contd.
Reels—Continued.
105. Box-strap,
106. Bracket-supported,
107. Spring-drum type—
108. Gearing,
109. Vertical,
110. Contractile—
111. Pivoted arm—
112. Lazy-tongs type,
113. Slidable arm—
114. Auxiliary,
115. Knockdown or collapsible,
116. Separable disks or heads.
117. **Winding-drums and sand-reels.**
118. **Bobbins and spools—**
119. Paper, pulp, or leather,
120. Cop type—
121. Metal,
122. Paper, pulp, or leather,
123. Metal heads,
124. Removable heads,
125. Thread fasteners and guides—
126. Separable.
127. **Skein-holders.**
128. **Unwinding devices.**
129. **Coil-holders.**
130. **Bobbin supporters and holders—**
131. Creels,
132. Receptacle or trough.
133. **Take-ups.**
134. **Spool-holders—**
135. Thread-cutters,
136. Carrier attachments,
137. Receptacles—
138. Single spool,
139. Stands,
140. Thread guards and guides.
141. **Twine-holders—**
142. Cutters,
143. Take-ups—
144. Pivoted guide,
145. Rotary,
146. Receptacle,
147. **Tension devices—**
148. Alarms and indicators
149. Clamp—
150. Disk type,
151. Roller—
152. Fluted.
153. Tortuous course—
154. Adjustable,
155. Wheel or pulley,
156. Brakes.
157. **Guides—**
158. Traverse mechanism.
159. **Special packages—**
160. Cone-wind,
161. Bobbins, cops, and spools.

243.—PNEUMATIC DESPATCH.*
1. **Systems—**
5. Trunk-line and branches,
6. Relay.
Active on transit—
7. Motor-actuating—
8. Pressure,
9. Exhaust,
10. Reservoir—
11. Pressure,
12. Exhaust.
13. Timers—
14. Pressure.
15. Exhaust,
16. Selective delivery—
17. Pressure,
18. Exhaust,
2. Combined pressure and exhaust,
3. Pressure,
4. Exhaust.
Terminals—
19. Combined delivery and sending,
Delivery—
20. Pressure—
21. Double gate,
22. Single gate,
23. Exhaust,
24. External receivers,
Sending—
25. Pressure—
26. Lock—
27. Timers,
28. Exhaust.

243.—PNEUMATIC DESPATCH—Contd.
29. **Switches—**
30. Main and branch line block,
31. Tube-section.
32. **Carriers—**
33. Wheeled.
Sliding—
34. Side-opening,
35. End-opening.
36. **Signals and indicators.**
37. **Obstacle-detectors.**
38. **Details—**
39. Carrier.

244.—AERONAUTICS.*
1. **Miscellaneous.**
2. **Launching and landing devices.**
3. **Balloons—**
4. Captive,
5. Propelled—
6. Screw—
7. Helicopter,
8. Paddle-wheel,
9. Wing,
10. Fluid.
11. **Flying-machines—**
12. Aeroplane—
13. Propelled—
14. Screw—
15. Helicopter,
16. Paddle-wheel,
17. Wing,
18. Fluid,
19. Helicopters,
20. Wing.
21. **Parachutes.**
22. **Kites—**
23. Multiple plane,
24. Accessories.
25. **Propellers—**
27. Wing.
29. **Steering mechanism.**
30. **Cars.**
31. **Details.**

245.—WIRE FABRICS AND STRUCTURE.*
1. **Miscellaneous.**
2. **Fabrics—**
3. Ties and clips,
4. Chain,
5. Interlocking loops,
6. Coil,
7. Hexagonal mesh,
8. Quadrangular mesh,
9. Link,
10. Edges and seams,
11. Slat and wire.
12. **Joints.**

246.—RAILWAY SWITCHES AND SIGNALS.*
1. **Miscellaneous.**
2. **Train-despatching—**
3. Central signal control—
4. Cab signal or train control,
5. Selective,
6. Train-order cab signal or train control.
7. Train telegraphy or telephony—
8. Inductive,
9. Continuous contacts—
10. Traction-rail return—
11. Multiple contact,
12. Instruments in series,
13. Emergency signal-stations,
14. Station, block, or train-order signals—
15. Safety systems—
16. Holders,
17. Rotary, vertical axis,
18. Double semaphore.
19. **Staff and tablet systems.**
20. **Block-signal systems—**
21. Semi-automatic—
22. Electromanual—
23. Cab signal or train control,
24. Circuit-controllers,
25. Lock and block—
26. Track-circuit control,

246.—RAILWAY SWITCHES AND SIGNALS—Continued.
Block-signal systems—Contd.
27. Automatic—
28. Electric—
29. Radiant energy—
30. Hertzian wave,
31. Propulsion-current control—
32. Current consumption,
33. Single track,
34. Varying-current track-circuit—
35. Propulsion-current return—
36. Double rail—
37. Impedance-bond,
38. Wireless distant control,
39. Line-wire distant control,
40. Single block,
41. Direct current, normally closed, track-circuit—
42. Propulsion-current return—
43. Varying,
44. Wireless distant control—
45. Current reversal,
46. Line-wire distant control—
47. Cab signal or train control—
48. Bridged insulated rail-joint,
49. Intermittent contact,
50. Current characteristic,
51. Overlapped blocks,
52. Home and distant,
53. Three-position,
54. Single block—
55. Cab signal or train control—
56. Intermittent contact,
57. Bridged insulated rail-joint,
58. Direct-current, normally open, track-circuit—
59. Cab signal or train control,
60. Distant-signal control,
61. Superimposed propulsion-current,
62. Cab signal or train control—
63. Inductive,
64. Train-carried current-supply—
65. Multiple continuous contacts—
66. Sectional,
67. Single continuous contact—
68. Sectional,
69. Intermittent contact—
70. Rail-circuit,
71. Rail-return,
72. Propulsion-current signaling,
73. Continuous contact,
74. Intermittent contact,
75. Bridged insulated rail-joint,
76. Track-trip,
77. Counting in and out—
78. Ratchet-wheel—
79. Double opposed pawls—
80. Parallel teeth,
81. Propulsion-current signaling—
82. Rotary controller,
83. Car-actuated controller—
84. Trolley or plow,
85. Intermittent contact,
86. Train-carried current-supply.
87. Line-current supply—
88. Intermediate signal,
89. Short sectional rail-closure,
90. Car-actuated controller—
91. Relay,
92. Intermittent contact,
93. Combined fluid-pressure and electric—
94. Cab signal or train control,
95. Track-circuit control,

* See Definitions of Revised Classes.

246.—RAILWAY SWITCHES AND SIGNALS—Continued.
- Block-signal systems—Contd.
  - Automatic—Continued.
    - 96. Electromechanical—
      - 97. Cab signal or train control,
      - 98. Track-circuit control,
      - 99. Clockwork,
    - 100. Fluid-pressure—
      - 101. Cab signal or train control,
    - 102. Mechanical—
      - 103. Cab signal or train control,
    - 104. Manual—
      - 105. Electric—
        - 106. Lock and block,
      - 107. Recorders.
    - 108. Time indication, automatic—
      - 109. Flow-retarded,
      - 110. Time-limit expired.
    - 111. Grade-crossing track protection—
      - 112. Semi-automatic,
      - 113. Automatic—
        - 114. Electric—
          - 115. Cab signal or train control,
          - 116. Fluid-pressure,
        - 117. Cab signal or train control.
    - 118. Drawbridge protection—
      - 119. Cab signal or train control.
    - 120. Roadway-defect protection—
      - 121. Electric.
    - 122. Train-position indication—
      - 123. Automatic time-recording,
      - 124. Train annunciators or indicators.
    - 125. Electric automatic highway-signals, mine-doors, and gates—
      - 126. Car-actuated controller—
        - 127. Gates and doors,
      - 128. Normally open track-circuit—
        - 129. Short sectional rail-closure,
      - 130. Normally closed track-circuit.
    - 131. Interlocking—
      - 132. Electric actuation—
        - 133. Electric locking—
          - 134. Route-locking,
          - 135. Return-release indication,
        - 136. Mechanical locking—
          - 137. Return-release indication—
            - 138 Locked slide,
        - 139. Fluid-presssure actuation—
        - 140. Electrically-controlled valve—
          - 141. Return-release indication,
          - 142. Return-release indication,
        - 143. Manual actuation—
          - Switch-stands—
            - 144. Signal-actuating—
              - 145. Double lever,
            - 146. Electrical locking.
            - 147. Mechanical locking—
              - 148. Preliminary—
                - 149. Tappets,
              - 150. Tappets,
              - 151. Detector-bars,
              - 152. Compensators—
                - 153. Counterweight—
                  - 154. Intermittent grip,
                - 155. Rod-saving devices—
                  - 156. Selectors—
                    - 157. Electric,
                    - 158. Switch and lock movements,
              - 159. Detached locking, check-locking, or key control,
              - 160. Approach-locking,
              - 161. Retarded-release mechanism,
              - 162. Switch or signal indicators,
              - 163. Derails.
    - 164. Slotting and control—
      - 165. Electric.
    - 166. Pilot or signal cars.
    - 167. Cab signal or train control—
      - 168. Train-parting,
      - 169. Train defect,
      - 170. Derailment—
        - 171. Contact-trips—
          - 172. Frangible,
        - 173. Inertia-trips,
        - 174. Highway or station, automatic—
          - 175. Code-signal,
          - 176. Switch-signals,
          - 177. Block-entrance initiated—
            - 178. Electric or magnetic control—
              - 179. Bridged insulated rail-joint,
              - 180. Cab-circuit controller,
              - 181. Mechanical actuation,
            - 182. Speed-control systems,

246.—RAILWAY SWITCHES AND SIGNALS—Continued.
- Cab signal or train control—Continued.
  - 183. Manual-control systems,
  - 184. Service-stop,
  - 185. Recording devices,
  - 186. Motive-power control—
    - 187. Electric,
    - 188. Fluid-pressure-actuated throttle,
  - 189. Engineer's-brake-valve actuation,
  - 190. Train-pipe-valve structure,
  - 191. Visual cab-signals,
  - 192. Train mechanism—
    - 193. Electric or magnetic—
      - 194. Inductive,
      - 195. Intermittent contact,
      - 196. Cab circuit-controller—
        - 197. Magnetically actuated,
      - 198. Single-direction actuation,
      - 199. Frangible,
      - 200. Lever-actuated,
      - 201. Track-trips—
        - 202. Electric or magnetic,
        - 203. Pivoted,
        - 204. Vertical motion,
        - 205. Lateral motion,
        - 206. Fixed,
        - 207. Portable.
  - 208. Car-displayed crossing-signals.
  - 209. Passengers' station-signals.
  - 210. Torpedo mechanism—
    - 211. Electric,
    - 212. Magazine—
      - 213. Vertical,
      - 214. Rotary,
    - 215. Car-attached,
    - 216. Hand placing devices.
  - 217. Audible switch and signal indicators.
  - 218. Electric actuation—
    - 219. Control-circuits,
    - 220. Switch-signals,
    - 221. Motor systems—
      - 222. Return-indication-current generation,
      - 223. Three-position signals,
      - 224. Home and distant signals,
      - 225. Reciprocating armature—
        - 226. Controller-actuated switches—
          - 227. Opposed magnets—
            - 228. Circuit-changers,
            - 229. Tandem contacts,
          - 230. Alternate throw,
          - 231. Opposed magnets—
            - 232. Circuit-changers,
            - 233. Tandem contacts, switches,
          - 234. Parallel contacts, switches—
            - 235. Circuit-controller,
          - 236. Alternate throw,
          - 237. Fly-back—
            - 238. Latch or clutch release,
            - 239. Switches,
          - 240. Rotary armature—
            - 241 Opposed motors,
            - 242. Circuit-changers,
            - 243. Fly-back—
              - 244. Latch or clutch release,
      - 245. Car-actuated generators,
      - 246. Car-actuated circuit-controllers—
        - 247. Wheel or train counting,
        - 248. Retarded action,
        - 249. Electric or magnetic,
        - 250. Single-direction actuation,
        - 251. Vertically-sprung rail,
        - 252. Trolley or plow actuated,
        - 253. Switch or signal actuated controllers,
        - 254. Trolley-completed circuits,
        - 255. Car-wheel-completed circuits,
        - 256. Relays.
    - 257. Fluid-motor actuation—
      - 258. Electric control—
        - 259. Car-controlled switches,
        - 260. Signals,
        - 261. Gates.
      - 262. Mechanical-motor actuation—
        - 263. Electric control.
    - 264. Point-throwers—
      - 265. Magnetic,
      - 266. Modified switch—
        - 267. Directing-grooves,
      - 268. Wedging-wheel,
      - 269. Sliding shoe.
    - 270. Vehicle-energy actuation—
      - 271. Fluid transmission—
        - 272. Gates,

246.—RAILWAY SWITCHES AND SIGNALS—Continued.
- Vehicle-energy actuation—Con.
  - 273. Continuous-rail crossings,
  - 274. Switch-connected frogs,
  - 275. Continuous-rail frogs—
    - 276. Spring-rail,
  - 277. Automatic turnouts,
  - Switch-stands, automatic—
    - 278. Facing-setting—
      - 279. Manual control,
      - 280. Resetting—
        - 281. Vehicle-restrained,
      - 282. Trailing-setting—
        - 283. Yielding rail,
      - 284. Trailing-setting—
        - 285. Yielding rail—
          - 286. Spring-clutch—
            - 287. Coaxial spring,
          - 288. Counterweight,
          - 289. Frangible,
        - 290. Trailing fly-back—
          - 291. Spring-actuated,
    - 292. Signals and gates, automatic—
      - 293. Highway-crossing—
        - 294. Visual and audible,
        - 295. Audible—
          - 296. Bells, single stroke,
        - 297. Track mechanism—
          - 298. Single direction,
          - 299. Latch or clutch release—
            - 300. Electric,
            - 301. Longitudinal motion,
            - 302. Vertical motion,
          - 303. Longitudinal spiral cam,
          - 304. Vehicle-restrained gates and doors—
            - 305. Parallel swing,
            - 306. Longitudinal motion,
            - 307. Vertical motion—
              - 308. Swinging—
                - 309. Yielding rail,
              - 310. Parallel swing,
              - 311. Longitudinal motion—
                - 312. Rectilinear,
              - 313. Vertical motion,
    - 314. Switches, automatic—
      - 315. Resetting, vehicle-restrained,
      - 316. Wheel-resetting,
      - 317. Facing-setting,
      - 318. Trailing-setting,
      - 319. Trailing fly-back—
        - 320. Spiral spring—
          - 321. Tie or connecting rod,
        - 322. Track mechanism—
          - 323. Selective,
          - 324. Latch or clutch release—
            - 325. Electric control,
          - 326. Electric control,
          - 327. Alternate throw—
            - 328. Tappet-wheel,
          - 329. Three and multiple throw,
          - 330. Traffic-protected,
          - 331. Rotary longitudinal connecting-shaft,
          - 332. Cable and pulley connection,
          - 333. Longitudinal spiral cam,
          - 334. Rack and pinion,
          - 335. Bow-spring,
          - 336. Longitudinal motion—
            - 337. Train-trip elevation,
            - 338. Track-mechanism depression,
          - 339. Perpendicular swing—
            - 340. Double,
          - 341. Horizontal swing—
            - 342. Double-acting,
            - 343. Double,
          - 344. Transverse motion—
            - 345. Duplex lever,
            - 346. Swinging—
              - 347. Double-acting—
                - 348. Guiding-tail,
              - 349. Double,
              - 350. Double-acting,
            - 351. Vertical motion—
              - 352. Duplex lever,
              - 353. Swinging—
                - 354. Double-acting,
                - 355. Double,
              - 356. Double—
                - 357. Transverse lever connection,
    - 358. Switch-locks, automatic,
    - 359. Train-trips—
      - 360. Electric or magnetic,
      - 361. Fluid-pressure,
      - 362. Resilient,
      - 363. Hooks,
      - 364. Racks or friction-bars,
      - 365. Pivoted—
        - 366. Wheel,
        - 367. Rod,

246.—RAILWAY SWITCHES AND SIGNALS—Continued.
Vehicle-energy actuation—Con.
Train-tripe—Continued.
368. Vertical motion—
369. Wheel,
370. Rod,
371. Lateral motion—
372. Wheel,
373. Rod.
374. **Safety-sidings.**
375. **Continuous-rail crossings—**
376. Overlapped main,
377. Pivoted rail,
378. Rotary block,
379. Movable point,
380. Sliding rail—
381. Longitudinal.
382. **Switch-connected frogs—**
383. Overlapped main—
384. Double rail,
385. Swinging tongue—
386. Stub end,
387. End-pivoted rail,
388. Center-pivoted rail,
389. Swinging rail—
390. Opposed swing,
391. Wing,
392. Transversely-sliding rail.
393. **Switch-stands—**
394. Cab signal or train control,
395. Resetting—
396. Latch-release, automatic,
397. Hand-restrained,
398. Vehicle-restrained,
399. Detention devices,
400. Key-retaining,
401. Rail-lock and position indication—
402. Transverse rotary locking shaft,
403. Three and multiple throw,
404. Adjustable throw,
405. Spiral-cam actuated,
406. Gear-actuated,
407. Structural types—
408. Depressed mechanism,
409. High-semaphore stands,
410. Vertical lever—
411. Ground-stands,
412. Horizontal lever—
413. Drop-arm—
414. Automatic key-lock.
415. **Switches—**
416. Slip,
417. Frog-obviating—
418. Single rail,
419. Conduit, third rail, or trolley,
420. Non-derailing, trailing—
421. Risers,
422. Moving guard-rail,
423. Facing, rerailing,
424. Facing, selective—
425. Side draft,
426. Modified wheel,
427. Stationary turnout,
428. Snow-protected,
429. Overlap,
430. Sliding,
431. Oscillating, longitudinal axis,
432. Risers,
433. Vertical motion,
434. Flexible rail,
435. Point—
436. Recessed rail,
437. Renewable and reinforced,
438. Point and mate,
439. Tandem,
440. Three-throw,
441. Tread guard-rail,
442. Tongue—
443. Bed-lock,
444. Self-cleaning,
445. Stub—
446. Double rail,
447. Anti creep or jar,
448. Lock,
449. Tie-bars—
450. Adjustable—
451. Eccentric,
452. Connecting-rods,
453. Chairs and plates.
454. **Crossings, frogs, and mates—**
455. Outer-tread-supported wheel,
456. Tread guard-rail,
457. Flange-supported wheel—
458. Frogs,
459. Hot-filled,
460. Central inserts—
461. Cast-bound,
462. Plate or plate-bolted,
463. Bolted,
464. Solid,

246.—RAILWAY SWITCHES AND SIGNALS—Continued.
Crossings, frogs, and mates—Continued.
465. Crossings—
466. Street and steam,
467. Chairs,
468. Frogs—
469. Unbroken main,
470. Clamped,
471. Composite,
472. Details.
473. **Signals—**
474. Track-reflectors,
475. Dwarf or pot,
476. Switch or switch-stand,
477. Roadway, visual and portable,
478. Inclosed,
479. Semaphore—
480. Upper quadrant,
481. Home and distant,
482. Arm—
483. Illuminated,
484. Lamp and spectacles,
485. Post mechanism,
486. Bridge-warnings,
487. Torpedoes,
488. Trainmen's kits.
489. **Manual actuation.**

247.—ELECTRICITY—CONDUITS.
1. **Boxes, pipe connections.**
3. **Conductors, bracket-supported.**
4. **House-wiring—**
5. Outlet-boxes—
6. Adjustable face,
7. Plugged inlets,
8. Removable wall.
9. **Integral sections.**
10. **Joints.**
Junction boxes—
12. Overground—
13. Panel-board type.
14. Thermal cut-outs,
15. Underground—
16. Panel-board type.
16. **Lining.**
17. **Miscellaneous.**
18. **Plural pipes—**
19. Bracket-supported.
20. **Separable wall—**
21. Conductors, bracket-supported,
22. Plural pipes.
27. **Vehicle.**
23. **Wire-drawing—**
24. Creepers,
25. Motors,
26. Sectional rods.

248.—SUPPORTS.
Adjustable—
1. Horizontal,
2. Vertical—
3. Clamp—
4. Electric,
5. Counterweight—
6. Electric,
7. Friction—
8. Electric,
9. Spring—
10. Electric.
50. **Article-carried.**
Brackets—
18. Shelf—
19. Adjustable,
20. Special article.
49. **Brush and broom—**
63. Incasing.
21. **Convertible.**
64. **Hangers, pivoted suspension.**
22. **Hooks—**
23. Clasping,
24. Folding or swinging,
25. Hoist-operated,
48. Molding,
26. Wire—
27. Single piece.
40. **Horn.**
28. **Hose-holders—**
29. Nozzle,
28.5. Rack.
30. **Miscellaneous.**

248.—SUPPORTS—Continued.
31. **Pipe or cable hangers—**
32. Beam-flange supported,
33. Cable-clip type,
35. Interjoist,
34. Multiple,
36. Wall-attached.
11. **Receptacle-stands—**
11.5. Closure-operating,
12. Racks,
51. Swinging—
52. Horizontal axis—
53. Closure operating,
54. Convertible casing,
58. Frame—
59. Convertible casing,
55. Rocker—
56. Frame—
57. Convertible casing,
60. Vertical axis—
61. Closure operating,
62. Platform.
37. **Staff-holders—**
38. Vertical.
41. **Stands.**
39. **Suction-cup.**
42. **Tree-ornament type.**
43. **Tripods—**
44. Cane type,
45. Horizontal adjustments,
46. Instrument-attaching devices,
47. Leveling adjustments.

249.—AUTOMATIC WEIGHERS.*
1. **Miscellaneous.**
2. **Special types—**
3. Material—
4. Fibrous,
5. Dough,
6. Overload—
7. Power,
8. Auxiliary chamber,
9. Catch-pan,
10. Feed-controlling float,
11. Shifting weight—
12. Alternating.
13. Stationary chamber,
14. Plural material,
15. Initial partial charge.
16. **Discharging—**
17. Filling—
18. Receptacle-feed,
19. Rotary—
20. Power,
22. Multiple,
23. Alternating—
24. Regulator—
25. Oscillating chamber,
26. Separate weigh-chamber—
27. Oscillating feed-guide—
28. Pouring discharge,
29. Divided weigh-chamber—
30. Feed cut-off,
31. Oscillating partition,
32. Oscillating feed-guide,
33. Oscillating—
34. Shearing discharge cut-off,
35. Pouring discharge,
Single—
36. Regulator—
37. Power,
38. Intercontrol of feed and discharge—
39. Single feed cut-off,
40. Plural feed-stream,
41. Coöperating feed cut-offs,
42. Power and feed cut-off—
43. Plural feed-stream,
44. Coöperating feed cut-offs,
45. Power,
46. Power cut-off—
47. Coöperating feed cut-offs,
48. Plural feed-stream,
49. Coöperating feed cut-offs—
50. Intercontrol of feed and discharge,
51. Oscillating weigh-chamber,
52. Single feed cut-off—
53. Intercontrol of feed and discharge,
54. Oscillating weigh-chamber.
55. **Removable weigh-chamber—**
56. Alternating—
57. Oscillating feed-guide,
58. Single—
59. Receptacle-feed,
60. Power and feed cut-off—
61. Coöperating feed cut-offs,

*See Definitions of Revised Classes.

249.—AUTOMATIC WEIGHERS—Contd.
Removable weigh-chamber—Continued.
Single—Continued.
62. Power,
63. Power cut-off—
64. Coöperating feed cut-offs,
65. Plural feed-stream,
66. Coöperating feed cut-offs.

250.—RADIANT ENERGY.*
1. Miscellaneous.
2. Teledynamic—
3. Earth transmission—
4. Telephony.
5. Telegraphy,
6. Radiotelephony—
7. By light-waves,
8. Radiotelegraphy—
9. Multiplex,
10. Coöperative wave,
11. Directive,
12. Group frequency,
13. Complete station,
14. Portable sets,
15. Repeaters,
16. Apparatus—
17. Transmitters—
18. Sustained oscillation,
19. Controllers,
20. Receivers—
21. Detectors—
22. Electrodynamic,
23. Electrolytic,
24. Magnetic,
25. Thermo-electric,
26. Thermal,
27. Gaseous element,
28. Liquid element—
29. Capillary,
30. Solid element—
31. Crystal,
32. Granular,
33. Antennæ.
34. Special ray—
35. Tubes.
36. Oscillation-circuits—
37. Disruptive discharge—
38. Spark-gap.
39. Wave-meters.
40. Tuners.
41. Condensers.

251.—VALVES.*
1. Convertible stop and non-stop.
2. Combined stop and non-stop.
3. Spring.
4. Combined reciprocating and rotating.
5. Tube-compressors.
6. Looking—
7. Tank.
8. Valve-body operated—
9. Rotary.
10. Pivoted—
11. Butterfly—
12. Hollow,
13. Alternately seated—
14. Butterfly,
15. Curtain type,
16. Geared,
17. Reciprocating stem,
18. Gate—
19. Terminal.
20. Reciprocating—
21. Liquid transfer,
22. Alternately seated—
23. Stop and waste,
24. Diaphragm type,
25. Disk or plug—
26. Trigger release,
27. Heads and faces—
28. Antiscoring,
29. Cleaning,
30. Packless stem—
31. Diaphragm-sealed,
32. Valve-sealed,
33. Suction-drained,
34. Graduated port,
35. Screw-seated,
36. Regrinding—
37. Concentric stem,
38. Spring-pressed,

251.—VALVES—Continued.
Reciprocating—Continued.
Disk or plug—Continued.
39. Cam-actuated—
40. Packed,
41. Lever-actuated,
42. Gear-actuated,
43. Screw-actuated—
44. Coöperating head and stem,
45. Coöperating handle and stem,
46. Swiveled head,
47. Non-rising stem—
48. Packed,
49. Bonnet structure,
50. Packed,
51. Gate—
52. Lever-actuated—
53. Terminal,
54. Gear-actuated,
55. Screw-actuated,
56. Thrust-opposing—
57. Non-rising stem,
58. Swiveled head,
59. Multifaced—
60. Lever-actuated,
61. Screw-actuated—
62. Non-rising stem,
63. Swiveled head,
Laterally expanding—
64. Cam-actuated,
65. Fluid-pressure,
66. Screw,
67. Toggle,
68. Wedge—
69. Swiveled head,
70. Gate-carrying—
71. Non-rising screw,
72. Swiveled head,
73. Multiway—
74. Supply and exhaust,
75. Piston—
76. Multiway,
77. Screw-actuated,
78. Tubular—
79. Liquid seal,
80. Screw-actuated.
81. Spool type—
82. Compensated,
83. Lever-actuated.
84. Rotary disk—
85. Balanced,
86. Graduated ports,
Multiway—
87. Alternately seated,
88. Mixing,
89. Stop and waste,
90. Spring-pressed.
91. Rotary plug—
92. Graduated ports,
93. Lubricating,
94. Drain,
95. Axial and radial bore,
96. Shell or skeleton,
97. Axially moving,
98. Balanced,
99. Handles, safety—
100. Removable,
101. Heads—
102. Sectional,
103. Packed,
104. Multiconduit,
105. Multiway—
106. Mixing,
107. Distributing,
108. Four-way,
109. Three-way—
110. Stop and vent—
111. Reversible,
112. Spring-pressed,
113. Seats.
114. Non-stop valves—
115. Valve-body operated,
116. Receptacle-operated—
117. Attachments,
118. Alternately seated,
119. Diaphragm,
120. Leak-valves,
121. Ball,
122. Collapsible,
123. Pivoted—
124. Dash-pot controlled,
125. Supplemental operator—
126. Weight,
127. Reciprocating disk or plug—
128. Dash-pot controlled,
129. Current-rotating,
130. Supplemental operator—
131. Cam—
132. Spring,
133. Lever—
134. Spring,

251.—VALVES—Continued.
Non-stop valves—Continued.
Reciprocating disk or plug—Continued.
Supplemental operator—Continued.
135. Push or pull button—
136. Dash-pot controlled,
137. Spring—
138. Dash-pot controlled,
139. Screw—
140. Opening,
141. Spring,
142. Dash-pot controlled,
143. Dash-pot controlled,
144. Spring-actuated—
145. Adjustable,
146. Dash-pot controlled,
147. Weight-actuated—
148. Adjustable,
149. Rotary.
150. Handles and stems.
151. Valve-indicators.
152. Stops—
153. Handle,
154. Stem.
155. Bodies—
156. Sectional—
157. Adjustable.
158. Materials.
159. Heads—
160. Disks—
161. Reinforced,
162. Plugs,
163. Holding devices—
164. Latches—
165. Handle-operated,
166. Attachments.
167. Seats—
168. Blast.

252.—SUBSTANCE PREPARATION.
(No subclasses.)

253.—MOTORS—FLUID.*
1. Miscellaneous.
Rotary-tool driving—
2. Peripheral supply,
3. End supply.
4. Tide or wave—
5. Floating,
6. Pendulum—
7. Float,
8. Float—
9. Tank-contained,
10. Vertically guided,
11. Pivoted,
12. Reciprocating carriage,
13. Endless chain,
14. Rotary.
16.5. Reversely rotating.
17. Water-operated—
18. Float,
19. Oscillating bucket,
20. Endless chain—
21. Gravity bucket,
22. Rotary—
Peripheral supply—
23. Reversing,
Jet—
24. Automatic control,
25. Plural shafts,
26. Single shaft—
27. Gravity-bucket—
28. Horizontal axis—
29. Intermittent,
30. Pivoted bucket,
31. End supply—
32. Series,
33. Center supply—
Gravity-bucket—
34. Horizontal axis—
35. Intermittent.
36. Gas-operated—
37. Atmospheric—
38. Rotary end supply,
39. Rotary—
40. Peripheral supply—
Single shaft—
Opposed delivery—
44. End supply,
45. Endwise flow,
46. Series—
Jet—
47. Reversing,
48. Peripheral supply,
49. Endwise flow,
50. Jet—
51. Reversing,
52. Automatic control,

* See Definitions of Revised Classes.

253.—**MOTORS—FLUID**—Continued.
Gas-operated—Continued.
Rotary—Continued.
Peripheral supply—Contd.
Single shaft—Continued.
Jet—Continued.
53. Serial flow—
54. Reactive delivery,
55. Center delivery,
56. Plural,
57. End supply—
59. Automatic control,
65. Single shaft—
66. Serial flow,
67. Opposed delivery,
68. United delivery,
69. Series—
70. Reversing,
71. Reëntrant radial flow—
72. Reversing,
73. Reversing,
74. Opposed supply,
Double bucket—
75. Intermediate supply,
76. With condensate-separator,
77. Buckets or baffles,
78. Nozzles or valves,
79. Center supply—
81. Reversing,
82. Automatic control,
Single shaft—
85. Opposed delivery,
86. Opposed supply,
87. Series—
88. Endwise flow,
89. Reaction wheel,
90. Jet,
91. Reaction—
92. Serial bucket
93. Serial flow,
94. Serial bucket,
95. Single bucket.
96. **Rotary—**
Peripheral supply—
97. Automatic control,
101. Single shaft—
Angular vane—
102. Opposed delivery—
103. Scroll,
104. United delivery,
Jet,
105. Reversing,
106. Series—
107. End delivery—
108. Scroll,
109. Angular vane,
110. Jet,
111. Opposed delivery—
112. Scroll,
113. Jet—
114. Divided bucket,
115. Double bucket,
116. Staggered bucket,
117. End delivery—
118. Angular vane—
119. Parallel supply,
120. Scroll,
121. Axially-movable gate,
122. Pivoted gate,
123. Rotary annular gate,
124. Scroll—
125. Plural—
126. Parallel supply,
127. Axially-movable gate,
128. Pivoted gate,
129. Jet—
130. Plural—
131. Pivoted gate,
132. Parallel supply,
Center delivery—
133. Jet—
134. Peripheral delivery,
135. Scroll,
136. Jet—
137. Reversing,
138. Automatic control—
139. Flow-operated,
140. Plural,
141. End supply—
142. Reversing,
143. Automatic control—
144. Flow-operated,
148. Single shaft—
149. Opposed delivery,
150. United delivery,
151. Parallel supply,
152. Series,
153. Angular vane—
154. Axially-movable gate,
155. Pivoted gate,
156. Rotary annular gate,
157. Scroll,

253.—**MOTORS—FLUID**—Continued.
Rotary—Continued.
End supply—Continued.
Single shaft—Continued.
158. Jet—
159. Plural—
160. Rotary annular gate,
Center supply—
163. Single shaft—
164. Series,
165. Reversing,
166. Automatic control,
167. Angular vane—
168. Axially-movable gate,
169. Pivoted gate,
170. Rotary annular gate,
171. Scroll,
172. Jet,
173. Reaction—
174. Axially-movable gate,
175. Tube-wheel.
Rotary pumps—
176. Peripheral supply,
End supply—
177. Plural shafts—
Series—
178. Reversely rotating,
179. Single shaft—
180. Opposed delivery,
181. Opposed supply,
182. Series,
183. Tangential delivery,
Center supply—
184. Plural shafts—
185. Series—
186. Reversely rotating,
187. Single shaft—
188. Series—
189. Concentric,
190. Opposed supply—
191. Tangential delivery—
192. Angular vane,
193. Tube-wheel,
194. Single supply—
195. Angular vane—
196. Tangential delivery,
197. End flow,
198. End delivery,
199. Center delivery,
200. Tangential delivery,
201. Tube-wheel.

254.—**PUSHING AND PULLING IMPLEMENTS.***
1. **Miscellaneous.**
2. **Hoisting-trucks—**
3. Tilting load-support,
4. Cable-hoist,
5. Inclined plane or wedge,
6. Rack and pinion or segment,
7. Screw,
8. Single-throw lever—
9. Toggle,
10. Parallelogram-bars.
11. **Floor-jack type—**
12. Rack and pinion or segment,
13. Screw,
14. Step-by-step traveling member
15. Single-throw lever and bar—
16. Sliding bar,
17. Single-throw lever.
18. **Nail-extractor type—**
19. Hammer and anvil,
20. Screw,
21. Single-throw lever—
22. Lever and pivoted-jaw grip,
23. Multiple-jaw grip—
24. Cam or wedge actuated,
25. Claw-bar—
26. Hammers,
27. Pivoted fulcrum member.
28. **Staple-pullers.**
29. **Pipe or rod jacks—**
30. Lifters—
31. Reciprocating clutch.
32. **Axle-lubricating jacks.**
33. **Car-journal-box lifting—**
34. Suspended lifter.
35. **Car-pusher type—**
36. Pinch-bar—
37. Rail-clamping,
38. Pivoted wheel-engaging member.
39. **Door-braces.**
40. **Printers' quoins—**
41. Screw,
42. Wedge.
43. **Rail or tie shifters—**
44. Single-throw lever.
45. **Vehicle-body lifters—**
46. Lever and drum,

254.—**PUSHING AND PULLING IMPLEMENTS**—Continued.
Vehicle-body lifters—Contd.
47. Cable-hoist—
48. Vehicle-attached drum,
49. Swinging side bars—
50. Single fixed pivot.
51. **Stretcher type—**
52. Belt—
53. Cable-actuated,
54. Screw,
55. Step-by-step traveling member—
56. Multiple driving-pawls,
57. Carpet—
58. Cable-actuated,
59. Rack and pinion or segment,
60. Step-by-step traveling member—
61. Pawl-actuated,
62. Single-throw lever—
63. Pivoted thrust-bars,
64. Reel-carriers and stretchers,
65. Block and tackle,
66. Rack and pinion or segment,
67. Screw,
68. Step-by-step traveling bar—
69. Clutch-actuated—
70. Multiple driving-clutches,
71. Pawl-actuated—
72. Multiple driving-pawls,
73. Reciprocating lever-actuated grip—
74. Chain—
75. Multiple pulling-grips,
76. Multiple pulling-grips,
77. Single-throw lever—
78. Chain-tighteners,
79. Strap or band tighteners,
80. Jointed-lever grip,
81. Multiple grips—
82. Post-straddling,
83. Fence-engaging devices.
84. **Traversing jacks—**
85. Screw.
86. **Attached vehicle-jacks—**
87. Turn-table.
88. **Inclined-plane lifters.**
89. **Multiple lifters—**
90. Track-straddling platform,
91. Swinging platform,
92. Screw.
93. **Fluid-pressure.**
94. **Rocking supports.**
95. **Rack and pinion—**
96. Screw-pinion,
97. Geared.
98. **Screw—**
99. Derrick type,
100. Special engaging feature—
101. Rocking head or base,
102. Telescoping screws,
103. Geared.
104. **Wedge.**
105. **Step-by-step traveling bar—**
106. Clutch-actuated—
107. Multiple driving-clutches,
108. Pawl-actuated—
109. Multiple driving-pawls—
110. Reversing,
111. Reversing,
112. Rack and lever.
113. **Single-throw lever and bar—**
114. Sliding bar—
115. Rack-bar and segment,
116. Adjustable—
117. Lateral shoe,
118. Rack-bar,
119. Adjustable.
120. **Single-throw lever—**
121. Rail or tie lifters,
122. Lazy-tongs,
123. Lever-supported thrust-bar,
124. Mechanically actuated—
125. Vehicle-tongue connection,
126. Screw,
127. Cable—
128. Block and tackle,
129. Adjustable—
130. Multiple fulcrums,
131. Special engaging feature—
131.5. Fulcrumed fork or shovel,
132. Root-puller type.
133. **Special engaging elements—**
134. Adjustable.
135. **Cable—**
136. Coffin-lowering,
137. Fish-net hauling—
138. Grip feature,
139. Derrick-hoists—
140. Tobacco-hanger,
141. Theater-curtain type,
142. Building-supported,
143. Extensible load-support.

*See Definitions of Revised Classes.

254.—PUSHING AND PULLING IMPLEMENTS—Continued.
Cable—Continued.
Derrick-hoists—Continued.
144. Multiple cable,
145. Drum—
146. Lever-actuated,
147. Reciprocating surface cable,
148. Cable-actuated sliding members,
149. Quick-take-up devices,
150. Drum—
151. Fire-escape type—
152. Spring-actuated—
153. Suspended,
154. Suspended—
155. Pulley-block,
156. Cable-brake,
157. Centrifugal brake,
158. Fluid-brake,
159. Centrifugal brake,
160. Fluid-brake,
161. Stretcher type—
162. Post-engaging—
163. Lever-actuated,
164. Lever-actuated,
165. Spring-compensator,
166. Wheeled carrier,
167. Suspended—
168. Motor-actuated,
169. Hand-cable actuated—
170. Screw-gearing,
171. Spur-gearing,
172. Variable-tension compensating,
173. Automatic control—
174. Combined stops,
175. Slack-cable stops,
176. Cable-driving—
177. Multiple,
178. Counterbalance feature,
179. Sweep-actuated—
180. Horizontal axis—
181. Clutch-controlled,
182. Clutch-controlled,
183. Multiple drums—
184. Horizontal axis—
185. Clutch-controlled,
186. Horizontal axis—
187. Clutch-controlled,
188. Block and tackle—
189. Multiplying sheaves,
190. Guides—
191. Grip-pulley,
192. Blocks—
193. Opening—
194. Attachment feature,
195. Attachment feature—
196. Detaching devices,
197. Guide or guard feature.

255.—EARTH-BORING.*
1. Miscellaneous.
2. Rigs—
3. Combination,
4. Advancing motor,
5. Impact-tool—
6. Automatic grip and release,
7. Crank-actuator—
8. Loose arm or pin,
9. Drum or reel actuator,
10. Reciprocating actuator,
11. Rocking arm—
12. Cam or tappet actuated,
13. Quick drop,
14. Turning devices,
15. Feeding devices,
16. Cushioning devices,
17. Shifting devices,
18. Adjusters,
19. Rotary tool—
20. Horizontal type,
21. With carrier,
22. Feed,
23. Rotaries,
24. Washers—
25. Fluid-circulating heads,
26. Drill-swivels and sockets,
27. Jars,
28. Rods—
29. Guides,
33. Rope-guards,
34. Rope-knives,
35. Wrenches.
36. Rock-drilling machines—
37. Impact—
38. Piston-driven,
39. Spring-driven,
40. Free impact,

255.—EARTH-BORING—Continued.
Rock-drilling machines—Con.
Impact—Continued.
41. Hammer—
42. Reciprocating,
43. Rotating mechanism—
44. Hand-hammer,
45. Feeding devices,
46. Rotary—
47. Motor-operated,
48. Ratchet-operated,
49. Washers—
50. Dust and sludge collectors,
51. Supports—
52. Single end engagement,
53. Column,
54. Legged.
60. Hole-clearers.
61. Drills, bits, and augers—
62. Non-circular hole,
63. Impact—
64. Fluid-passage,
65. Dirt-releasing,
66. Blade type,
67. Pod or shell—
68. Bottom valve,
69. Screw—
70. Plate,
71. Roller,
72. Core.
73. Reamers—
74. Expansible—
75. Longitudinally-movable bit,
76. Pivoted bit,
77. Resilient bit,
78. Rocking bit.

256.—FENCES.*
1. Miscellaneous.
2. Barbed—
3. Guarded—
4. Visible,
5. Fabrics,
6. Strands—
7. Single—
8. Integral barb,
9. Sectional.
10. Electric.
11. Top-guarded—
12. Unstable.
13. Flood.
14. Track-guard—
15. Rocking,
16. Rotary,
17. Bar—
18. Pronged.
19. Earth, stone, plastic, and wooden.
20. Hedge.
21. Metallic—
22. Picket.
23. Suspended.
24. Panel—
25. Inclosure,
26. Hinged,
27. Angle—
28. Tied,
29. Tied—
30. Braced,
31. Braced.
32. Wire—
33. All-wire,
34. Picket,
35. Braced—
36. Trussed,
37. Stretcher—
38. Gravity,
39. Spring,
40. Winder—
41. Multiple,
42. Bracket,
43. Internal,
44. Lateral,
45. Fabrics,
46. Strands,
47. Connections—
48. Cross—
49. Facing-strip,
50. Plastic—
51. Reinforced,
52. Multiple,
53. Non-alined slots,
54. Clamp—
55. Screw,
56. Wedge,
57. Tie,
58. No-clip.

256.—Fences—Continued.
59. Rail—
60. Angle—
61. Tied,
62. Tied—
63. Braced,
64. Braced,
65. Connections—
66. Plastic,
67. Adjustable,
68. Clamp—
69. Screw,
70. Wedge,
71. Tie,
72. No-clip.
73. Panels.

257.—HEAT EXCHANGE.*
1. Miscellaneous.
2. Automatic control—
3. Combined heating and cooling—
4. Liquid—
5. Regenerative.
6. Heating and cooling—
7. Car,
8. Building,
9. Air,
10. Liquid—
11. Regenerative.
12. Body—
13. Coffin type.
14. Barrel—
15. Internal tube.
16. Muffler type.
17. Chamber—
18. Air-pump circuit,
19. Liquid-pump circuit,
20. Radiator type,
21. Casing,
22. Internal tube,
23. Conveyer.
24. Condensers—
25. Motor-vehicle,
26. Ship,
27. Convertible jet or surface,
28. Surface—
29. Separator,
30. Still,
31. Feed-heater type,
32. Condensate-cooler,
33. Varied surface,
34. Receptacle-closure,
35. Liquid-trickler,
36. Air—
37. Water injected to air,
38. Water injected to steam,
39. Air-pump,
40. Water injected to steam,
41. Air injected to steam,
42. Plural outlet,
43. Horizontal water-tube—
44. Pump system,
45. Spur-tube,
46. Radiator type—
47. Varied surface—
48. Condensate varied,
49. Loop-tube,
50. Spur-tube,
51. Processes.
52. Gas and liquid contact—
53. Trickler—
54. Exchange-tube—
55. Liquid-circuit,
56. Vertical air-tube—
57. Air-pump,
58. Closed chamber,
59. Agitator,
60. Agitator, evaporative—
61. Closed chamber,
62. Gas injected—
63. Agitator,
64. Closed chamber,
65. Liquid injected—
66. Preliminary exchanger,
67. Horizontal exchange-tube,
68. Horizontal air-tube,
69. Vertical air-tube,
70. Gas-pump,
71. Liquid-circuit,
72. Liquid-circuit,
73. Agitators and conveyers—
74. Operated by exchange fluid,
75. Shakers,
76. Tank—
77. Liquid-circuit,
78. Tube-agitator—
79. Horizontal rotary—
80. Exposed to atmosphere

* See Definitions of Revised Classes.

257.—HEAT EXCHANGE—Continued.
Agitators and conveyers—Con.
Tank—Continued.
81. Horizontal rotary internal tank,
82. Horizontal rotary agitator, Jacketed—
83. Horizontal rotary-tube agitator,
84. Horizontal rotary agitator, Internal tube—
85. Horizontal rotary agitator, Horizontal jacketed cylinder—
86. Rotary conveyer,
87. Horizontal rotary cylinder—
88. Jacketed—
89. Closed cylinder—
90. Internal tube,
91. Internal tube,
92. Internal tube—
93. Closed cylinder,
94. External trickler,
95. External exchange—
96. Scraper—
97. Plural liquid,
98. Bottom feed,
99. Floated product,
Internal exchange—
100. Scraper,
101. Horizontal rotary conveyer,
102. Horizontal rotary,
103. Vertical tank—
104. Vertical rotary-tube agitator,
105. Internal annular tank,
Internal tube—
106. Vertical rotary agitator,
Jacketed—
107. Vertical rotary-tube agitator,
108. Vertical rotary agitator, Internal tube—
109. Vertical rotary agitator,
Vertical rotary drum—
110. Conveying-scraper,
111. Annular liquid-film,
112. Vertical rotary conveying-agitator,
Vertical rotary scraper—
113. Floated product,
114. Trickler,
Vertical rotary plate—
115. Liquid-film,
116. Plate—
117. Vertical rotary agitator, Superposed—
118. Vertical rotary agitator,
119. Vertical rotary-tube agitator,
120. Vertical rotary.
121. Subterranean—
122. Liquid—
123. Filter.
124. Radiator type—
125. Motor-vehicle—
126. Air-pump,
127. Water-pump,
128. Horizontal air-tube,
129. Vertical water-tube—
130. Flat,
131. Zigzag water-tube,
132. Casings and shields,
133. Base-board,
134. Varied surface,
135. Bottom air-box,
136. Incased—
137. Air-pump,
138. Air-moistener,
139. Sheet metal—
140. Vertical sectional,
141. Vertical air-tube—
142. Annular—
143. Sheet metal,
144. Loop-tube—
145. Vertical,
146. Spur-tube—
147. Vertical,
148. Zigzag—
149. Vertical plane,
150. Integral fin,
151. Vertical sectional,
152. Horizontal sectional,
153. Single-plane sectional,
154. Top and bottom header,
155. Grid,
156. Rack,
157. Shelf,
158. Horizontal plate,
159. Flow control,
160. Joints and ties—
161. Sectional type,
162. Flexible connection,
163. Supports.

257.—HEAT EXCHANGE—Continued.
164. Heating-drum type—
165. Chimney by-pass,
166. Air-conduit—
167. Vertical drum—
168. Down and up gas-flow,
169. Symmetrical—
170. Annular tube,
171. Transverse air-tube,
172. Vertical drum—
173. Symmetrical—
174. Tube type—
175. Top and bottom header,
176. Zigzag,
177. Tube type.
178. Trickler—
179. Two-fluid flow—
180. Casing—
181. Pressure,
182. Horizontal plate,
183. Zigzag tube—
184. Casing,
185. Plural tube,
186. Casing,
187. Vertical plate,
188. Horizontal plate,
189. Tank—
190. Interior.
191. Tank—
192. Indirect exchange,
193. Inverted-bottle type,
194. Annular,
195. Annular internal tank,
196. Internal pressure-chamber—
197. Annular shell,
198. Internal tube—
199. Removable,
200. Movably attached,
201. Annular,
202. Air-pump,
203. Vertical liquid-tube—
204. Liquid-pump circuit,
205. Vertical coil,
206. Vertical zigzag,
207. Bottom connection,
208. Jacketed—
209. Internal annular shell,
210. Internal tube,
211. Circular section,
212. Cylindrical,
213. Float.
214. Air-pump.
215. Liquid-circuit.
216. Vertical casing—
217. Filter,
218. Internal flat plate,
219. Internal vertical-tube drum,
220. Internal tube—
221. Vertical loop,
222. Vertical return,
223. Vertical zigzag,
224. Vertical—
225. One internal header—
226. Return-tube,
227. Two internal headers,
228. Annular,
229. Vertical coil,
230. Horizontal zigzag,
231. Vertical spur,
232. Annular film.
233. Horizontal casing—
235. Internal tube—
236. Horizontal,
237. Annular,
238. Spur,
239. Loop,
240. Zigzag,
234. Zigzag.
241. Plural confined fluids—
242. Liquid—
243. Annular film,
244. Air-pump,
245. Plate-conduit,
246. Annular-tube—
247. Zigzag.
248. One confined fluid—
249. Annular tube,
250. Annular shell,
251. Vertical tube—
252. Zigzag,
254. Spur-tube,
255. Zigzag,
256. Plate—
257. Table,
258. Disk,
259. Fan,
260. Hollow fan.
261. Cylinders.
262. Conduits.
263. Heat-transmitters.

258.—RAILWAY MAIL DELIVERY.*
1. Miscellaneous.
2. Signaling feature.
3. Hand-tools.
4. Magnetic.
5. Projectors—
6. Automatically actuated—
7. Spring.
8. Car-positioned receiver or support.
9. Laterally-sliding receiver or support.
10. Longitudinally-extending auxiliary track.
11. Combined receiver and support—
12. Fork and other receiver—
13. Retaining feature,
14. Fork-receiver only—
15. Retaining feature—
16. Impact-operated load release,
17. Receiver-engaging feature,
18. Receiver-engaging feature,
19. Impact-operated load release.
20. Receivers—
21. Fork—
22. Retaining feature.
23. Supports—
24. Interconnected arms,
25. Impact-operated load release,
26. Receiver-engaging feature.

259.—AGITATING.*
1. Miscellaneous.
2. Feeding and discharging—
3. Receptacle rotating,
4. Receptacle fixed—
5. Stirrer rotating—
6. Axis fixed—
7. Single stirrer—
8. Vertical, with actuating means,
9. Horizontal—
10. With actuating means.
11. Feeding—
12. Receptacle moving—
13. Oscillating,
14. Rotating—
15. Stirrer—
16. Single, rotating,
17. Translating,
18. Receptacle fixed—
19. Stirrer—
20. Oscillating,
21. Rotating—
22. Single stirrer, axis fixed—
23. Vertical—
24. With actuating means,
25. Horizontal—
26. With actuating means,
27. Translating.
28. Discharging—
29. Receptacle moving—
30. Rotating—
31. Stirrer—
32. Rotating—
33. Single stirrer,
34. Fixed,
35. Translating,
36. Receptacle fixed—
37. Stirrer—
38. Oscillating—
39. Single stirrer,
40. Rotating—
41. Axis fixed—
42. Single stirrer—
43. Vertical—
44. With actuating means,
45. Horizontal—
46. With actuating means,
47. Translating.
48. Receptacle plural—
49. Fixed rotating—
50. Single rotating receptacle—
51. Stirrer—
52. Translating,
53. Fixed,
54. Moving—
55. Rocking,
56. Oscillating,
57. Rotating—
58. Stirrer,
59. Translating,

* See Definitions of Revised Classes.

259.—AGITATING—Continued.
Receptacle plural—Continued.
60. Fixed—
61. Stirrer—
62. Oscillating—
63. Single stirrer,
64. Rotating—
65. Single stirrer, axis fixed—
66. Vertical—
67. With actuating means,
68. Horizontal—
69. With actuating means,
70. Translating—
71. Single stirrer.
72. **Receptacle moving—**
73. Rocking—
74. Stirrer,
75. Oscillating—
76. Stirrer—
77. Oscillating,
78. Rotating,
79. Translating,
80. Fixed,
81. Rotating—
82. Stirrer—
83. Oscillating,
84. Rotating—
85. Single stirrer,
86. Translating—
87. Single stirrer,
88. Fixed,
89. Receptacles—
90. Vented,
91. Translating—
92. Stirrer—
93. Rotating,
94. Fixed.
Receptacle fixed—
95. Pump type—
96. Centrifugal,
97. Screw,
98. Piston,
99. Stirrer—
100. Oscillating—
101. Single stirrer,
102. Rotating—
103. Axis fixed—
104. Parallel axes,
105. Coincident axes,
106. Single stirrer—
107. Vertical—
108. With actuating means,
109. Horizontal—
110. With actuating means,
111. Single stirrer,
112. Translating—
113. Single stirre ,
114. Single stirrer.
115. **Covers with pumps.**
116. **Covers and stirrers—**
117. Oscillating stirrer,
118. Rotating stirrer—
119. Axis fixed—
120. Coincident axes,
121. Single stirrer—
122. Vertical,
123. Translating stirrer—
124. Single.
125. **Covers.**
126. **Stirrers—**
127. Oscillating—
128. Single stirrer,
129. Rotating—
130. Axis fixed—
131. Parallel axes,
132. Coincident axes,
133. Single stirrer—
134. Vertical—
135. With actuating means,
136. Horizontal—
137. With actuating means,
138. Single stirrer,
139. Translating—
140. Single stirrer—
141. With actuating means,
142. Screw,
143. Valve,
144. Single stirrer.

260.—GAS AND LIQUID CONTACT APPARATUS.*
1. **Miscellaneous.**
2. **With liquid separation—**
3. In circuit,
4. On inlet,
5. Filtering—
6. Unitary structure,

261.—GAS AND LIQUID CONTACT APPARATUS—Continued.
With liquid separation—Contd.
7. Decanting—
8. Unitary structure.
9. **With heating or cooling—**
10. Interchanging,
11. Cooling,
12. Heating—
13. Gas—
14. Incoming,
15. Liquid.
16. **Multiple gas—**
17. Furnace-gas type.
18. **Multiple liquids.**
19. **Fluid distribution—**
20. Systems—
21. Series—
22. Gas connections,
23. Parallel,
24. Pumping—
25. Liquid-operated,
26. Automatic control—
27. Liquid-inlet,
28. Gas and liquid—
29. Liquid-circuit,
30. Gas-inlet—
31. Churn type—
32. Rotary dasher,
33. Reciprocating dasher
34. Liquid—
35. Gas-operated,
36. In circuit,
37. Inlet,
38. Valved—
39. Thermostatic,
40. Multiple jet—
41. Progressive,
42. Multiple valves—
43. Connected—
44. Contact-space,
45. Gas by-pass—
46. With gas-inlet,
47. With gas-outlet,
48. With liquid-inlet,
49. Liquid-inlet—
50. With gas-inlet.
51. With gas-outlet,
52. Gas inlet and outlet,
53. Contact-space,
54. Gas by-pass—
55. With gas-inlet,
56. With gas-outlet,
57. With liquid-inlet,
58. Liquid-inlet—
59. With gas-inlet,
60. With gas-outlet,
61. Gas inlet and outlet,
62. Contact-space,
63. Gas by-pass,
64. Gas-inlet,
65. Gas-outlet,
66. Liquid-inlet—
67. Plural—
68. Float and manual,
69. Gas-pressure controlled,
70. Float-controlled,
71. Manual,
72. Liquid-supply tank—
73. Barometric,
74. Contact-receptacle.
75. **Contact devices—**
76. Injector type—
77. Submerged **blast,**
78. Atomizer type,
79. Rotating gases,
80. Traveling strip,
81. Reciprocating—
82. Piston,
83. Rotating—
84. Impeller—
85. Hollow shaft—
86. Gas-trapping,
87. Gas-delivering,
88. Liquid-spraying,
89. Sprayed—
90. Horizontal axis,
91. Dipping—
92. Horizontal axis,
93. Submerged blast,
94. Porous mass—
95. Surface contact,
96. Gas-flow control,
97. Liquid-flow control—
98. Spray,
99. Capillary feed,
100. Porous sheet—
101. Surface contact—
102. Gas-flow control,
103. Liquid-downflow,
104. Capillary feed,
105. Gas-flow control,

261.—GAS AND LIQUID. CONTACT APPARATUS—Continued.
Contact devices—Continued.
Porous sheet—Continued.
106. Liquid-downflow,
107. Capillary feed,
108. Wet baffle,—
109. Gas-flow control,
110. Liquid-flow control—
111. Spray,
112. Film,
113. Perforated baffles,
114. Overflow-baffles,
115. Liquid-spray—
116. Aspirating,
117. Opposed,
118. Transverse,
119. Liquid-tank—
120. Floating distributer,
121. Submerged blast—
122. Submerged screen,
123. Submerged baffle,
124. Multiple jet,
125. Multiple receptacle,
126. Upflowing gases.

262.—MINING, QUARRYING, AND ICE-HARVESTING.*
1. **Miscellaneous.**
2. **Excavating and separating.**
3. **Thermal or solvent.**
4. **Tunnel-excavating—**
5. Implements—
6. Impact,
7. Rotary.
8. **Implements—**
9. Plural-type tools,
10. Ice-shave type—
11. Grooving,
12. Breaking down,
13. Impact-tool—
14. Swinging pick,
15. Sliding guided—
16. Swinging guide,
17. Rocking-arm actuated,
18. Crank-actuated,
19. Rotary tool—
20. Vertical-kerf cutter—
21. Rectangular cutter arrangement,
22. Drill
23. Bar-cutter—
24. Front cut,
25. Side cut
26. Front cut,
27. Side cut,
28. Endless flexible cutter—
29. Front cut,
30. Side cut,
31. Reciprocating cutter—
32. Double cut.
33. **Bits, cutters, or picks.**
34. **Mine safety systems.**

263.—HEATING.*
1. **Miscellaneous.**
2. **Articles—**
3. Continuous strip,
4. Circular—
5. Fluid fuel,
6. Work manipulation—
7. Rotary carrier,
8. Endless carrier,
9. Fluid fuel.
10. **Furnaces—**
11. Pot—
12. Rotary—
13. Fluid fuel,
14. Fluid fuel,
15. With gas-heater—
16. Rotary chamber,
17. Multiple chamber—
18. Externally heated,
19. Gas-heating—
20. Separate flues,
21. Agitating—
22. Rotary chamber,
23. Reciprocating stirrer,
24. Endless stirrer,
25. Rotary stirrer—
26. Vertical,
27. Combined shaft and hearth,
28. Traveling support,
29. Shaft—
30. Baffle—
31. Moving,

* See Definitions of Revised Classes.

263.—HEATING—Continued.
Furnaces—Continued.
- 32. Rotary chamber—
- 33. Single—
- 34. Externally heated,
- 35. Vertical,
- 36. Multiple chamber—
- 37. Externally heated—
- 38. Fluid fuel,
- 39. Fluid fuel,
- 40. Single chamber—
- 41. Externally heated—
- 42. Fluid fuel,
- 43. Fluid fuel,
- 44. Cooling,
- 45. Waste-receptacles,
- 46. Masonry structure.
- 47. **Receptacles**—
- 48. Pots,
- 49. Boxes.
- 50. **Heat-screens.**

264.—SPEED-RESPONSIVE DEVICES.*
- 1. **Miscellaneous.**
- 2. **With driving mechanism.**
- 3. **With modifiers**—
- 4. Automatic—
- 5. Differential—
- 6. Inertia,
- 7. Fluid-pressure,
- 8. Electric,
- 9. **Differential**—
- 10. Brake,
- 11. Inertia.
- 12. **Resistance**—
- 13. Clutch,
- 14. Fluid-pressure.
- 15. **Centrifugal**—
- 16. Parallel pivot,
- 17. Guided,
- 18. Spring-support,
- 19. Fluid,
- 20. Balanced.
- 21. **Intermittent impulse.**

265.—FORCE-MEASURING.*
- 1. **Miscellaneous.**
- 2. **Recording**—
- Strength of material—
- 3. Beam-scale instruments,
- 4. Torque during transmission,
- 5. Scales—
- 6. Beam—
- 7. Automatically-slidable poise,
- 8. Spring—
- 9. Automatic.
- 10. **Friction.**
- 11. **Viscosity.**
- 12. **Strength of material**—
- 13. By impact or shock,
- 14. Fluid-transmission instruments,
- 15. Accumulative-weight instruments.
- 16. Beam-scale instruments,
- 17. Pendulum-scale instruments,
- 18. Spring-scale instruments—
- 19. Pivotal indicator.
- 20. **Muscular strength**—
- 21. Spring-scale instruments—
- 22. Pivotal indicator.
- 23. **Current-pressure.**
- 24. **Torque by absorption.**
- 25. **Torque during transmission**—
- 26. Total-registering.
- 27. **Scales**—
- 28. Total-registering,
- 29. Computing—
- 30. Beam—
- Slidable poise—
- 31. Pivotal indicator,
- 32. Changeable table,
- 33. Variable connection—
- 34. Shiftable beam,
- 35. Shiftable load-holder,
- 36. Pendulum—
- Pivotal indicator—
- 37. Indirect connection,
- 38. Spring—
- 39. Pivotal indicator,
- 40. Vehicle—
- Beam—
- 41. Relievable platform,
- Spring—
- 42. Pivotal indicator,

265.—FORCE-MEASURING—Continued.
Scales—Continued.
- 43. Buoyancy—
- 44. Specific gravity—
- 45. Hydrometers—
- 46. With thermometer attachment,
- 47. Fluid transmission,
- 48. Automatic weight pick-up,
- 49. Beam—
- 50. Coin-testers,
- 51. Sack,
- 52. Hoisting load-holder.
- 53. Variable connection,
- 54. Equal arm,
- 55. With platform,
- 56. Automatically-slidable poise,
- Slidable poise—
- 57. Pivotal indicator,
- 58. Auxiliary or substitute indicator—
- Spring—
- 59. Pivotal indicator,
- 60. Non-slidable-poise feature,
- 61. Pendulum—
- Pivotal indicator—
- 62. Indirect connection,
- 63. Spring—
- 64. Refrigerator—
- 65. Pivotal indicator,
- 66. Handling load-holder—
- 67. Pivotal indicator,
- 68. Pivotal indicator,
- 69. Thermal compensator,
- 70. Automatic poise,
- 71. Platforms—
- 72. With relieving-gear.

266.—METALLURGICAL APPARATUS.*
- 1. **Miscellaneous.**
- 2. **Treating solid metal**—
- 3. Continuous strip,
- 4. With heat and liquid,
- 5. With heat,
- 6. With liquid—
- 7. Pickling.
- 8. **Treating with heat and liquid.**
- 9. **Combined operation**—
- 10. Roasting and smelting,
- 11. Smelting and refining,
- 12. Leaching and precipitating.
- 13. **Plants.**
- 14. **With gas-heater.**
- 15. **With fume-arrester**—
- 16. Heating-furnace—
- 17. Shaft,
- 18. Rotary chamber,
- 19. Retort.
- 20. **Roasting**—
- 21. Grate.
- 22. **Precipitating.**
- 23. **Blowpipes.**
- 24. **Furnaces**—
- 25. Shaft—
- 26. Explosion control,
- 27. Charging—
- 28. Pneumatic,
- 29. Feeding fluids—
- 30. Air,
- 31. Tops and offtakes,
- 32. Cooling,
- 33. Melting.
- 34. **Treating molten material**—
- 35. Converters—
- 36. Rotary,
- 37. Separating,
- 38. Discharging,
- 39. Receptacles.
- 40. **Forehearths.**
- 41. **Tuyers.**
- 42. **Plugging and tapping.**
- 43. **Linings.**

267.—SPRING DEVICES.*
- 1. **Miscellaneous.**
- 2. **Vehicle**—
- 3. Railway—
- 4. Coil,
- 5. Perambulator,
- 6. Bolster—
- 7. Leaf,
- 8. Springs and retarders—
- 9. Friction—
- 10. Flexible strap,

267.—SPRING DEVICES—Continued.
Vehicle—Continued.
- 11. Parallel depression—
- 12. Positive connections—
- 13. Duplex—
- 14. Single point,
- 15. Lever—
- 16. Leaf and coil—
- 17. Leaf-end-connecting lever,
- 18. Leaf and fluid-pressure,
- 19. Leaf,
- 20. Coil,
- 21. Deformable,
- 22. Compound—
- 23. Leaf, coil, and fluid-pressure,
- 24. Leaf, fluid-pressure and liquid,
- 25. Leaf and torsion—
- 26. Torsion-coil—
- 27. Leaf-end connecting,
- 28. Leaf and coil—
- 29. Leaf-end connecting,
- 30. Leaf and deformable,
- 31. Leaf and fluid-pressure—
- 32. Leaf-end connecting,
- 33. Coil and deformable,
- 34. Coil and fluid-pressure,
- 35. Deformable and fluid-pressure,
- 36. Leaf—
- 37. Covering and lubricating,
- 38. Twin, axle interposed,
- 39. Side bar,
- 40. Longitudinal,
- 41. Cantaliver,
- 42. Elliptic,
- 43. Elliptic and leaf,
- 44. Semi-elliptic,
- 45. Semi-elliptic and leaf—
- 46. End-to-end connected,
- 47. Structure—
- 48. Auxiliary tensioning elements,
- 49. Antifriction,
- 50. Lubrication,
- 51. Broken-spring supports,
- 52. Intermediate supports,
- 53. Clips,
- 54. End connections—
- 55. Elliptic,
- 56. Sliding,
- 57. Torsion—
- 58. Coil—
- 59. Volute,
- 60. Coil—
- 61. Structure—
- 62. Volute,
- 63. Deformable,
- 64. Fluid-pressure and liquid,
- 65. Fluid-pressure,
- 66. Braces—
- 67. Yielding,
- 68. Sliding.
- 69. **Elastic extension devices**—
- 70. Compression-spring—
- 71. Single—
- 72. Drawbars inclosed,
- 73. Tension-spring—
- 74. Single.
- 75. **Reciprocating-bed-cushioning devices.**

268.—CLOSURE-OPERATORS.
- 5. **Cab-door.**
- 6. **Car-door.**
- 7. **Car-platform door.**
- 2. **Counter-guard.**
- 3. **Hatch.**
- 1. **Miscellaneous.**
- 25. **Receptacle.**
- 10. **Shutter-workers**—
- 11. Combined slat,
- 12. Cord or chain,
- 13. Levers,
- 14. Rotary shaft,
- 15. Sliding shaft,
- 16. Sliding shutter.
- 8. **Sliding door.**
- 9. **Swinging door.**
- 17. **Transom-lifters**—
- 21. Chain or cord,
- 19. Gear and rack,
- 23. Latches,
- 22. Links,
- 18. Multiple,
- 24. Pivoted bar,
- 20. Worm-gear.
- 4. **Window.**

*See Definitions of Revised Classes.

270.—SHEET-MATERIAL ASSOCIATING OR FOLDING.*

1. **With printing—**
2. Folding and wrapping,
3. Rolling and wrapping,
4. Associating and folding, with rotary printer—
5. Longitudinal web-folding—
6. Cylinder-collecting, with sheet-folding—
7. Additional-sheet associating,
8. Sheet-folding—
9. Additional-sheet associating,
10. Web-association with cylinder-collecting—
11. Additional-sheet associating,
12. Sheet-associating—
13. Cylinder-collecting—
14. Additional-sheet associating,
15. Additional-sheet associating,
16. Longitudinal sheet-folding,
17. Additional-sheet associating,
18. Associating, with rotary printer—
19. Cylinder-collecting,
20. Folding, with rotary printer—
21. Cutting,
22. Bed and traveling cylinder, web, perfecting.
23. **Folding and wrapping—**
24. Combined folders,
25. Oscillating folding-blade,
26. Reciprocating folding-blade.
27. **Rolling and wrapping—**
28. Flattening,
29. Pocket-former.
30. **Reciprocating-carriage pilers—**
31. Traveling supply.
32. **Associating and folding—**
37. Stapling or stitching—
38. Cylinder-collecting,
39. Zigzag package—
40. Longitudinal web-folding,
41. Longitudinal web-folding—
42. Cylinder-collecting, with sheet folding,
43. Web-associating, with cylinder-collecting—
44. Additional-sheet associating,
45. Sheet-associating—
46. Stop-sheet,
47. Cylinder-collecting—
48. Additional-sheet associating—
49. Revolving pivotal folding-blade,
50. Revolving pivotal folding-blade,
51. Additional-sheet associating.
52. **Associating—**
53. Stapling or stitching,
54. Signature-gatherers—
55. Insetting,
56. Interrupter,
57. Insetting,
58. Sheet-associating—
59. Stop-sheet,
60. Cylinder-collecting.
61. **Folders—**
62. Combination—
63. With revolving blade—
64. And longitudinal folder—
65. Revolving blade of fold-off-rolls type,
66. With longitudinal folder,
67. Oscillating and reciprocating blades,
68. Buckling,
69. Pneumatic,
70. Revolving blade—
71. Registering cylinders—
72. Multiple—
73. Zigzag,
74. Oscillating blade,
75. Oscillating blade,
76. Fold-off-rolls type—
77. Planetary blade,
78. Moving gripper,
79. Oscillating or reciprocating zigzag fold,
80. Oscillating blade—
81. Multiple—
82. Stacking,
83. Reciprocating blade—
84. Multiple—
85. Stacking,

270.—SHEET-MATERIAL ASSOCIATING OR FOLDING—Continued.

Folders—Continued.

86. Longitudinal—
93. Edge,
94. Multiple.

271.—SHEET FEEDING OR DELIVERING.*

1. **Special article—**
2. Envelop.
3. **Feeding and delivering—**
4. Separators and conveyers—
5. Pneumatic separator,
6. Continuous endless conveyer,
7. Continuous endless conveyers.
8. **Feeding—**
9. Multiple supply,
10. Separators and conveyers—
11. Pneumatic separator—
12. Endless conveyer—
13. Side gage,
14. Reciprocating conveyer,
15. Side gage,
16. Buckling-separator and endless conveyer—
17. Side gage,
18. Separators—
19. Buckling—
20. Pneumatic,
21. Rotary—
22. Pack-advancer,
23. Bottom feed,
24. Pack-advancer—
25. Feeler control,
26. Pneumatic—
27. Rotary—
28. Pack-advancer,
29. Bottom feed,
30. Pack-advancer—
31. Feeler control,
32. Bottom feed,
33. Adhesive,
34. Endless belt—
35. Bottom feed,
36. Rotary—
37. Preliminary protrusion—
38. Feeler control,
39. Pack-advancer,
40. Feeler control,
41. Bottom feed,
42. Reciprocating—
43. Pack-advancer,
44. Bottom feed,
45. Endless conveyers—
46. Retarder,
47. Interrupter,
48. Side and front gage,
49. Side gage,
50. Front gage,
51. Rotary conveyers—
52. Side gage,
53. Front gage,
54. Reciprocating conveyers—
55. Side gage,
56. Interrupter—
57. Electrical,
58. Side and front gages,
59. Side gages,
60. Front gages,
61. Pack-holders—
62. Advancer.
63. **Delivering—**
64. Multiple discharge,
65. Optional face or back—
66. Endless conveyers to flies,
67. Endless conveyers to curtains,
68. Endless conveyers to depositors,
69. Endless conveyers to other conveyers—
70. To flies,
71. Rotary conveyers to depositors,
72. Rotary conveyers to flies,
73. Curtains,
74. Pneumatic conveyers,
75. Endless conveyers—
76. Multiple—
77. Arrested,
78. Arrested,
79. Suspension-gripper,
80. Rotary conveyers—
81. Traveling,
82. Suspension-gripper,
83. Flies,
84. Reciprocating conveyers—
85. Suspension-gripper,
86. Pack-receivers—
87. Retractor—
88. Lowering,
89. Jogger.

272.—FLEXIBLE-SHEET-SECURING DEVICES.

(No subclasses.)

273.—CONTINUOUS-STRIP FEEDING.

(No subclasses.)

274.—SOUND RECORDING AND REPRODUCING.*

1. **Miscellaneous.**
2. **Cabinet instruments.**
3. **Duplication.**
4. **Magnetic.**
5. **Radiochemical.**
6. **Fluid column.**
7. **Mechanical—**
8. Disk and cylinder,
9. Flat tablet—
10. Multiple tablet,
11. Tape,
12. Traveling table,
13. Stylus-feed—
14. Restoring—
15. Automatic,
16. Pivoted amplifier,
17. Cylinder—
18. Multiple tablet,
19. Reciprocating mandrel
20. Stylus-feed—
21. Restoring—
22. Automatic.
23. **Tone-arms.**
24. **Sound-box mountings.**
25. **Sound-boxes—**
26. Fixed casing, pivoted stylus,
27. Sound-modifier,
28. Convertible,
29. Perpendicularly-undulating record type—
30. Recorder and reproducer,
31. Interchangeable styluses,
32. Recorder,
33. Friction transmission,
34. Floating weight,
35. Laterally-undulating-record type—
36. Interchangeable styluses,
37. Stylus-holders,
38. Styluses.
39. **Tablet-tables.**
40. **Tablet-mandrels.**
41. **Tablets—**
42. Flat—
43. Tape,
44. Cylinder.
45. **Stylus-changers.**
46. **Recording processes.**

275.—SCATTERING-UNLOADERS.*

1. **Miscellaneous.**
2. **Traversing machines—**
3. Manure-spreader type—
4. Load-feeding—
5. Belt-conveyer type—
6. With scatterer,
7. With scatterer—
8. Rotary,
9. Discharger-operators.
10. **Scattering—**
11. Manually-operated implements—
12. Rotary scatterer,
13. Multiple discharging,
14. Stationary spreader,
15. Rotary scatterer.

276.—TYPE-SETTING.*

1. **Miscellaneous.**
2. **Setting and distributing machines—**
3. Registrable magazine and composing channels—
4. Magazine and printing member,
5. Circulating feeler and type-holder distributers,
6. Ward-distributers,
7. Keyboard-distributers.
8. **Setting and justifying machines—**
9. Measurer-controlled justifier,
10. Compressing-justifier,
11. Indicating-justifier.
12. **Setting-machines—**
13. Pattern control,
14. Hand-supply,

* See Definitions of Revised Classes.

276.—TYPE-SETTING—Continued.
Setting-machines—Continued.
15. Registrable magazine and composing channels,
16. Conveyer—
17. Endless—
18. Power-ejector,
19. Power-ejector,
20. Converging chutes—
21. Power-ejector.
22. **Distributing-machines—**
23. Feeler—
24. Circulating type-holder—
25. Circulating feeler,
26. Ward,
27. Keyboard.
28. **Justifying-machines—**
29. Measurer-controlled—
30. Space-making—
31. Casting,
32. Wedge,
33. Galleys.
34. **Lead-handlers.**
35. **Type-line separators.**
36. **Type-arrangers.**
37. **Hand-type channels.**
38. **Composing-sticks—**
39. Positive knee-lock.
40. **Galleys—**
41. Side and end locking means,
42. Side-locking means.
43. End-locking means.

277.—MULTIPLE VALVES.*
1. **Dependent-motion type—**
2. Alternately usable,
3. Multiconduit—
4. Rotating,
5. Reversing—
6. Reciprocating,
7. Multiway and serial,
Multiway—
8. Stop and non-stop—
9. Waste,
Stop—
10. Reciprocating and rotating—
11. Concentric,
12. Reciprocating—
13. Alternately seated—
14. Waste—
15. Differential,
16. Piston,
17. Gate,
18. Mixing,
19. Rotating,
20. Non-stop—
21. Reversely acting,
22. Serial—
23. Stop and non-stop—
24. Reciprocating and rotating—
25. Concentric,
26. Reciprocating—
27. Repair-check—
28. Water-gage type.
29. Concentric—
30. Drainage-vent.
Stop—
31. Reciprocating and rotating—
32. Concentric,
33. Reciprocating—
34. Alternately seated,
35. Concentric—
36. Equalizing—
37. Balanced,
38. Gate,
39. Rotating—
40. Irreversible,
41. Concentric,
42. Non-stop—
43. Equalizing,
44. Concentric—
45. Reversely acting.
46. **Independent-motion type—**
47. Air-vent type—
48. Non-stop—
49. Reversely acting,
50. Multiway and serial—
51. Stop and non-stop,
52. Multiway—
53. Main and by-pass—
54. Stop and non-stop,
55. Stop and non-stop,

277.—MULTIPLE VALVES—Continued.
Independent motion-type—Continued.
Multiway—Continued.
Stop—
56. Reciprocating and rotating,
57. Reciprocating—
58. Gate type,
59. Rotating,
60. Non-stop—
61. Reversely acting,
62. Serial—
63. Stop and non-stop—
64. Reciprocating and rotating,
65. Reciprocating,
Stop—
66. Reciprocating and rotating,
67. Reciprocating—
68. Reversely acting,
69. Rotating,
70. Non-stop—
71. Reversely acting.

2
279.—CHUCKS OR SOCKETS.*
1. **Miscellaneous.**
2. **Expanding.**
3. **Vacuum.**
4. **With fluid-pressure actuator.**
5. **Angularly adjustable or indexing.**
6. **Eccentric.**
7. **Threaded grip.**
8. **Longitudinal screw-clamp.**
9. **Socket type—**
10. For plural tangs—
11. Forks,
13. Flat bits,
14. Multiple alternative—
15. End and side sockets,
16. Self-centering or floating—
17. Radially-reciprocating jaws,
18. Transverse holder and set-screw,
19. Lost motion,
20. Fluid-conduit drill-holding,
Self-grasping—
Yielding grasping-jaws—
22. Ball or roller,
23. Spring-jaws,
24. Yielding detent,
One-way-clutch type—
28. Wedge,
29. Side detent—
30. Ball or roller,
32. Conical clamp threaded in socket,
33. Transversely-oscillating jaws—
34. Screw-actuated,
35. Pivoted jaws—
Moving-cam actuator—
36. Threaded cam-sleeve,
37. Reciprocating cam-sleeve,
38. Fixed cam and moving jaws—
39. Axial screw-actuator,
40. Threaded-sleeve actuator,
Split socket—
41. Resilient—
42. Threaded cam-sleeve,
43. Reciprocating cam-sleeve,
44. One movable side—
45. Sleeved,
46. Spring-jaws—
Moving-cam actuator—
47. Threaded sleeve and wedge,
48. Threaded cam-sleeve—
49. Loose jaws,
50. Reciprocating cam-sleeve,
51. Fixed cam and moving jaws—
52. Threaded-sleeve actuator,
53. Axial screw-actuator,
54. Loose jaws,
55. Loose jaws—
Moving-cam actuator—
56. Threaded cam-sleeve,
57. Reciprocating cam-sleeve,
58. Fixed cam and moving jaws—
59. Threaded sleeve and body,
60. Obliquely-guided reciprocating jaws—
61. Threaded sleeve and jaw—
62. Conical sleeve,

279.—CHUCKS OR SOCKETS—Contd.
Socket type—Continued.
Obliquely-guided reciprocating jaws—Continued.
63. Threaded central cone and jaw,
64. Threaded sleeve and body,
65. Reciprocating jaw-advancing sleeve,
66. Radially-reciprocating jaws—
67. Transverse-screw actuated—
68. Interlaced jaws,
Moving-cam actuator—
69. Threaded cam-sleeve,
70. Threaded sleeve and wedge,
71. Rotary eccentric-cam sleeve—
72. Roller and rocking jaw,
73. Worm-actuated,
74. Reciprocating cam-sleeve—
75. Ball or roller jaws,
76. Side detent—
77. Pivoted or rotary—
78. Sleeved,
79. Spring—
80. Sleeved,
81. Rotary cam-sleeve,
82. Reciprocating sleeve,
83. Set-screw,
84. U-clamp,
85. Plural bolt,
86. Single transverse bolt,
87. Longitudinal clamping-wedge,
88. Transverse,
89. Shouldered-tang holding—
90. Cap—
91. Screw,
92. Tang with transverse bar,
93. Tang offset within socket,
94. Tang offset without socket,
95. Bottomless—
96. Friction-grip,
97. Transverse pin—
98. Pump-rod type,
99. Screw-threaded—
100. Nut-lock—
101. Threaded sleeve,
102. Friction-grip—
103. Drill type,
104. Barbed or pronged tang,
105. Molded or cast-in tang.
106. **Pivoted jaw—**
107. Cam-sleeve actuated,
108. Internal-cone actuated,
109. Toggle-actuated.
110. **Radially-reciprocating jaws—**
111. With indicator,
112. Transverse-screw actuated—
113. Annular rack,
114. Spiral cam or scroll actuated—
115. Worm,
116. Bevel-pinion,
117. Rack-and-pinion actuated,
118. Toggle-actuated,
119. Lever-actuated—
120. Internal cone,
121. Wedge-actuated,
122. External-cone actuated,
123. Jaws.

280.—LAND-VEHICLES.*
1. **Miscellaneous.**
2. **Dropped bodies.**
3. **Wheel-propelled.**
4. **Hose and ladder.**
5. **Tank or boiler.**
6. **Body-leveling devices—**
7. Tank or boiler.
8. **Wheeled and runner—**
9. Retracting wheel or runner—
10. Wheel-runner type,
11. Pivoted lateral axis.
12. **Runner—**
13. Wheel-runner,
14. Hub-runner,
15. Multiple sled—
16. Occupant-steered,
17. Swivel and rocking,
18. Toboggan,
19. Drag,
20. Folding,
21. Occupant-steered—
22. Flexible runner,
23. Push,
24. With draft attachment,
25. Spring,
26. Rocker-runner,
27. Knees,
28. Runner-bases.

* See Definitions of Revised Classes.

280.—LAND-VEHICLES—Continued.
29. Wheeled—
30. Convertible—
31. Cradle or crib,
32. Skids,
33. Articulated—
33.1. Separable motor-section,
33.2. Vehicle-train—
33.3. Traction-engine tenders,
33.4. Two-wheeled trailers,
33.5. Trailer-steering connectors—
33.6. Adjustable tongue,
33.7. Offset couplings—
33.8. Adjustable-tongue connectors,
34. Extensible—
35. Article-support,
36. Folding—
37. Traveling-case,
38. Pivoted wheel-carrier—
39. Longitudinal axis—
40. Two-wheel,
41. Transverse axis,
42. Lateral,
43. Vertically adjustable—
44. Positively actuated—
46. Tongue,
47. Hand—
48. Steering,
49. Trucks and barrows—
50. Receptacle—
51. Two-wheel,
52. One-wheel,
53. Two-wheel—
54. With additional-wheel attachment,
55. Tandem wheels,
56. Warehouse type—
57. Movable toe,
58. One-wheel,
59. Three-wheel,
60. Two-wheel,
61. Article-supports,
62. Three-wheel,
63. Two-wheel—
64. Adjusting-wheels,
65. Spring—
66. Thill and axle connected—
67. Interposed spring—
68. Body thill-mounted,
69. Body axle-mounted,
70. Body thill-mounted—
71. Adjustable,
72. Body axle-mounted—
73. Adjustable,
74. Adjustable,
75. Thill and body connected—
76. Adjustable,
77. Adjustable,
78. One-wheel,
79. Spring,
80. Running-gear—
81. Multiple truck,
82. Tongue-truck—
83. Vertically adjustable,
84. One-wheel,
85. Swinging axle and rocking,
86. Swivel-truck,
87. Occupant-steered—
87.5. Coaster-wagons,
88. Combined brake,
89. Checked—
90. Fluid,
91. Four-wheel controlled,
92. One-wheel controlled,
93. Stub-axle—
94. Centering,
95. Link-connected—
96. Rotary shaft and gearing,
96.1. Mounts—
96.2. Springs,
96.3. Pivot in wheel-plane,
97. Swinging axle,
98. Short turn—
99. Four-wheel controlled—
100. Oppositely-swinging axles—
101. Pivoted and sliding reaches,
102. Crossed reaches,
103. Stub-axle,
104. Equalized frame,
105. Roller-bearing frame,
106. Body-frames—
106.5. Spring suspension,
107. With body or load retainers,
108. With tongue-anti-vibrators,

280.—LAND VEHICLES—Continued.
Wheeled—Continued.
Running-gear—Continued.
109. Swinging axle and rocking—
110. Spring,
111. Rocking—
112. Spring,
113. Swinging axle—
114. Platform type—
115. Spring,
116. With draft attachment,
117. Offset pivot—
118. Spring—
119. Longitudinal leaf,
120. Spring—
121. Leaf—
122. Longitudinal,
123. Cross,
124. Spring,
125. Swinging-axle connections—
126. Rocking—
127. Platform type—
128. Spring,
129. Spring,
130. Platform type—
131. Spring,
132. With draft attachment,
133. Offset pivot—
134. Spring—
135. Longitudinal leaf,
136. Spring—
137. Longitudinal leaf,
138. Antirattlers,
139. Hounds,
140. Reaches—
141. Swivel,
142. Extensible,
143. Bolsters and standards—
144. Varying-width adjustment
145. Pivotally connected,
146. Vertically adjustable standards,
147. Readily-removable standards,
148. Supplemental bolsters,
149. Irons and clips,
150. Attachments—
151. Auxiliary load-starters,
152. Dust and mud guards—
153. Body-attached—
154. Securing device,
155. Thill or tongue attached,
156. Wheel-attached,
157. Axle-attached,
158. Wheel scrapers and cleaners,
159. Dust-guards,
160. Wheel-guards,
161. Chafe-irons—
162. Roller,
163. Steps—
164. Combined devices,
165. Wheel or axle attached,
166. Shiftable—
167. Obstacle-operated,
168. Detachable,
169. Treads,
170. Whip-sockets—
171 Whip-gripping—
172. Spring,
173. Rubber gaskets,
174. Pivotally-connected sections,
175. Brackets and clips,
176. Lock,
177. Combined reinholders,
178. Whip-manipulating devices,
179. Load-binders—
180. Hay,
181. Rein supports and guards,
182. Rein-holders—
183. Clamp—
184. Spring—
185. Pivoted jaws,
186. Hitching and controlling devices—
187. Weight,
188. Ground-engaging (brake) lever,
189. Wheel-operated,
190. Winding-drum—
191. Shiftable gear,
192. Clutch.

281.—BOOKS, STRIPS, AND LEAVES.*
1. Miscellaneous.
2. Strips and leaves.
3. Books and leaves—
4. Removable cover.

281.—BOOKS, STRIPS, AND LEAVES—Continued.
5. Strips—
6. With platen—
7. Strip retained—
8. With feed,
9. With attaching means,
10. Leaf retained,
11. With feed,
12. With attaching means—
13. Wall,
14. Strip retained.
15. Books—
16. Multiple—
17. Removable cover,
18. Sealed,
19. Removable cover,
20. Protectors,
21. Bindings—
22. Scrap-book,
23. Continuous strip,
24. Guard,
25. Metal fastening,
26. Undercut slot,
27. Sewed,
28. Elements,
29. Covers—
30. With pencils,
31. With pockets,
32. With pulls,
33. Easel type,
34. Removable,
35. Flexible,
36. Backs,
37. Sides,
38. Leaves—
39. Erasable surface,
40. Flat-opening—
41. Single leaf,
42. Book-leaf holders and marks,
43. Leaves—
44. Holders.

282.—MANIFOLDING.*
1. Miscellaneous.
2. Strips, books, and leaves.
3. Strips and leaves—
4. Strip retained—
5. With feed,
6. Leaf retained,
7. With feed.
8. Books and leaves—
9. Multiple copy—
10. Multiple books,
11. Multiple books.
12. Strips—
13. Strip retained—
14. Carbon—
15. With feed,
16. With feed,
17. Leaf retained—
18. With feed,
19. Carbon—
20. With feed,
21. With feed.
22. Books—
23. Impressed,
24. Multiple.
25. Envelops and leaves.
26. Leaves—
27. Impressed,
28. Carbon,
29. Holders.

283.—PRINTED MATTER.*
1. Miscellaneous.
2. Calendar—
3. Indexed,
4. Multiple book.
5. Ballots.
6. Concealed data.
7. Identification.
8. Fraud preventing or detecting—
9. Alteration preventing or detecting—
10. Stamps,
11. Cryptographic,
12. Severable part—
13. Transportation—
14. Transfer,
15. Cash-fare receipts—
16. Book.
17. Cryptographic.

*See Definitions of Revised Classes.

283.—PRINTED MATTER—Continued.
- 18. **Labels and tags**—
- 19. Stock-indicators,
- 20. Baggage,
- 21. Labels—
- 22. Stamps.
- 23. **Transportation**—
- 24. Mileage,
- 25. Return,
- 26. Commutation,
- 27. Transfer—
- 28. Premium,
- 29. Premium,
- 30. Cash-fare receipt—
- 31. Book,
- 32. Reference,
- 33. Book.
- 34. **Maps**—
- 35. Indexed.
- 36. **Indexed**—
- 37. Plurality of position-markers—
- 38. Book,
- 39. Blank position-markers—
- 40. Book,
- 41. Index only,
- 42. Book—
- 43. Multiple.
- 44. **Mathematics.**
- 45. **Writing.**
- 46. **Language.**
- 47. **Music.**
- 48. **Tallies**—
- 49. Game—
- 50. Book,
- 51. Coupon—
- 52. Book.
- 53. **Theater-tickets.**
- 54. **Insurance.**
- 55. **Inventories.**
- 56. **Advertising.**
- 57. **Banking**—
- 58. Checks,
- 59. Certificates of deposit.
- 60. **Sales documents.**
- 61. **Strips and leaves.**
- 62. **Strips.**
- 63. **Books**—
- 64. Covers.
- 65. **With sliding leaf.**
- 66. **Accounting and listing forms, books, and sheets.**

284.—VALVED PIPE JOINTS OR COUPLINGS.*
- 1. **Multiple coupling**—
- 2. Flexible connecting-pipes,
- 3. Flexible coupling.
- 4. **Single coupling**—
- 5. Duplicate end—
- 6. Plural conduit, automatic coupling,
- 7. Transverse port—
- 8. Internal valve—
- 9. Rotary,
- 10. Reciprocating,
- 11. Longitudinal port,
- 12. Automatic engaging,
- 13. Flexible-tip pipe, internal nipple,
- 14. Pipe and plate, barrel-bushing type—
- 15. Plural conduit,
- 16. Angled pipe or elbow—
- 17. Pipe and socket,
- 18. Pipe and socket—
- 19. Flexible packing in socket.

285.—PIPE JOINTS OR COUPLINGS.*
- 1. **Miscellaneous.**
- 2. **Multiple**—
- 3. Combined inlet and outlet,
- 4. Water-closet type,
- 5. Spaced plates—
- 6. Secant and sput connection,
- 7. Flexible—
- 8. Flexible connecting-pipes,
- 9. Swivel,
- Ball and socket
- 10. Concentric tube,
- 11. Telescopic,
- 12. Sheet-metal pipe,
- 13. Inserted threaded section.
- 14. **Insulated**—
- 15. Ball and socket,
- 16. Screw-thimble,
- 17. Bolted flange.

285.—PIPE JOINTS OR COUPLINGS—Continued.
- 18. **Y-coupling**—
- 19. Double.
- 20. **U-coupling.**
- 21. **Plural conduit**—
- 22. Concentric,
- 23. Alined bores,
- 24. Duplicate end, automatic engagement.
- 25. **Pipe and plate**—
- 26. Junction-box type,
- 27. Angled pipe or elbow—
- 29. Center bolt,
- 30. Secant—
- 31. Roof-flashing type,
- 32. Tent type,
- 33. Water-closet type—
- 34. Bolted flange,
- 35. Ball and socket,
- 37. Plastic plate,
- 38. Flexible or yielding plate,
- Bushing—
- 39. Wooden-barrel type—
- 40. Plural conduit,
- 41. Sheet-metal pipe,
- 44. Hook,
- Packed—
- 45. Countersunk—
- 46. Screw-gland,
- 47. External thimble—
- 48. Screw,
- 49. Sput—
- 50. Screw-clamped—
- 51. Lugged—
- 52. Movable lug,
- 53. Thimble—
- 54. Internal,
- 55. Screw,
- 56. Expanded or swaged pipe.
- 57. **Duplicate end**—
- 58. Automatic engagement,
- 59. Intermediate sleeve,
- 60. Side slide,
- 61. Screw-thimble,
- Transverse port—
- 62. Integral hook—
- 63. Gaskets and retainers,
- 64. Diagonal port,
- Longitudinal port—
- 65. Pivoted hook or loop,
- 66. Rotary sleeve,
- Integral hook—
- 67. Rotary engagement,
- 68. Oscillating engagement—
- 69. Gaskets and retainers.
- 70. **Automatic engagement.**
- 71. **Flexible or yielding pipe**—
- 72. Concentric pipes,
- 73. Angled pipes,
- 74. Molded joint,
- 75. Intermediate coupling,
- 76. Internal sleeve—
- 77. External clamp or holder—
- 78. Bolted external ring or flange,
- 79. Screw-thimble,
- 80. Internal nipple—
- 81. Flexible-tip pipe—
- 82. External clamp,
- 83. With opposed coupling,
- 84. External clamp or holder—
- 85. Bolted external ring,
- 86. Screw-thimble,
- 87. Screw-thimble—
- 88. Coacting thimbles,
- 89. Wooden.
- 90. **Flexible-material joint.**
- 91. **Ball and socket**—
- 92. Multiplex,
- 93. Hinged,
- 94. Bolted flange,
- 95. Screw-thimble.
- **Swivel**—
- 96. Ball or roller bearings,
- 97. Diagonal joint.
- 98. **Coupling-casing**—
- 99. Longitudinally divided—
- 100. Lateral port,
- 101. Lateral port.
- 102. **Transverse port**—
- 103. Pipe and socket, flanged pipe,
- 104. Integral bolt.
- 105. **Angled pipe or elbow**—
- 106. Molded joint,
- 107. Pipe and socket,
- 108. External clamp.
- 109. **Liquid seal.**
- 110. **Detachable hinge.**
- 111. **Molded joint**—
- 112. Composite pipe,
- 113. Internal and external sleeve,
- 114. External sleeve,

285.—PIPE JOINTS OR COUPLINGS—Continued.
- **Molded joint**—Continued.
- 115. Pipe and socket—
- 116. Inserted section,
- 117. Interlocked joint,
- 118. Perforated socket,
- 119. Leak-preventing gland.
- 120. **Screw-thimble**—
- 121. Diagonal joint,
- 122. Pipe and socket—
- 123. Clamping-thimble,
- 124. Pipe-flange in socket,
- 125. Segmental threads,
- 126. Coacting thimbles—
- 127. Flanged pipes,
- 128. Divided thimble.
- **Flanged pipes**—
- 129. Clamp.
- 130. **Bolted flange**—
- 131. Intermediate sleeve,
- 132. External sleeve,
- 133. Pipe and socket—
- 134. Packed—
- 135. Bolted flange-follower—
- 136. Flanged pipe,
- 137. Attached flange—
- 138. Detachable flange-ring,
- 139. Integral flange—
- 140. Detachable flange-ring,
- 141. Internal sleeve,
- 142. Rings or sleeves.
- 143. **Side slide**—
- 144. Clamping-lever.
- 145. **Screw**—
- 146. Longitudinal port—
- 147. Divided socket,
- 148. Lined pipe,
- 149. Segmental threads—
- 150. Radially moved,
- 151. Partly threadless,
- External packing—
- 152. Detachable compressor,
- 153. Attached compressor,
- 154. Countersunk—
- 155. Compressor,
- 156. Intermediate packing,
- 157. Internal packing,
- 158. Sheet-metal pipe,
- 159. Molded joint,
- 160. Reducer.
- 161. **Pipe and socket**—
- 162. Piston,
- 163. Flexible packing in socket—
- 164. External clamp,
- 165. Expanded packing,
- 166. Screw-gland,
- 167. Flanged pipe,
- Detent—
- 168. Reciprocating—
- 169. Spring,
- 170. Pivoted—
- 171. Tighteners,
- 172. Side-lug engaging,
- 173. Spring,
- 174. Leaf-spring,
- Rotary engagement—
- 175. Lugged pipe—
- 176. Internal reciprocating packer.
- 177. Rotary locking-sleeve.
- 178. Reciprocating locking-sleeve,
- 179. Sheet-metal pipe,
- 180. Rotary locking-sleeve,
- 181. Tightener,
- 182. Wedge,
- 183. Reducer,
- 184. T-socket,
- 185. Sheet-metal pipe—
- 186. Clamped socket.
- 187. **Pivoted detent**—
- 188. Tightener,
- 189. Rotary-sleeve actuated.
- **Leaf-spring detent**—
- 190. Inward movement.
- 191. **Rotary locking-sleeve.**
- 192. **External and internal sleeve.**
- 193. **External sleeve**—
- 194. Longitudinally divided—
- 195. Lateral port,
- 196. End packing.
- 197. **Internal sleeve.**
- 198. **Reducer.**
- 199. **Adjustable length.**
- 200. **Plugged.**
- 201. **Sheet metal.**
- 202. **Plural wall.**
- 203. **Pipe-fittings**—
- 204. Elbows.

* See Definitions of Revised Classes.

26.—PACKED SHAFT OR ROD JOINTS.*

1. **Miscellaneous.**
5. **Journal-box type—**
6. Channeled box.
7. **Rotary rod—**
8. Fluid-port—
9. Fluid seal,
10. Fluid seal,
11. Flexible-diaphragm type.
12. **Cylinder-head—**
13. Tandem cylinders,
14. Interior of cylinder.
Rod and plate—
15. Ball-and-socket secant.
16. **Cable.**
17. **External receptacle.**
18. **External packing.**
19. **Fluid-circuit.**
20. **Sectional—**
21. Fluid-port,
22. Longitudinally and radially spring-pressed,
23. Longitudinally spring-pressed,
24. Radially spring-pressed,
Socket—
25. Bolted flange-follower.
26. **Fluid seal.**
27. **Fluid-port—**
28. Longitudinally spring-pressed.
29. **Flexible-diaphragm type.**
30. **Longitudinally spring-pressed.**
Socket—
31. Follower—
32. External spring or weight,
33. Bolted flange,
34. Screw-thimble,
35. Screw.
36. **Valved or shouldered rod.**
37. **Screw-thimble.**
38. **Fluent packing with compressor.**
39. **Bolted flange.**

27.—ROD JOINTS OR COUPLINGS.*

1. **Miscellaneous.**
2. **Cradle type.**
3. **Scythe type—**
4. Adjustable angle—
5. Side tang.
6. **Nib type.**
7. **Harrow-tooth type—**
8. Tooth and bar.
9. **Straight-edge type.**
10. **Insulated.**
11. **Adjustable angle—**
12. Ball and socket,
13. Arc connection,
14. Hinged—
15. Notched arc and detent,
16. Locking-pin,
17. Pivot-clamp,
18. Extension-tang,
19. Screw-clamp.
20. **Rod to base, plate or head—**
21. Ball and socket,
22. Hinged,
23. Attached socket,
24. Handle to transverse toolheads—
25. Platelike tool—
26. Socket integral with tool,
27. Resilient connection,
28. Socket in head—
29. Detachable bit—
30. Flat bit—
31. Plural,
32. Wedged-in handle—
33. Screw-actuated wedge,
34. Cap,
35. Cap,
36. Reinforcing-shield—
37. Integral with head,
38. Split,
39. Center rod,
40. Center bolt,
41. L connection,
42. Loop connection,
43. Y connection,
44. Integral tang,
45. Handle to platelike tool—
46. Trowel type—
47. Socket integral with tool.
Crossed rods or wires—
49. Separate connections—
50. Wire.
51. **Crossed bars.**
52. **Collar, pulley, or lever and shaft—**
53. Shaft end attached.

27.—ROD JOINTS OR COUPLINGS—Continued.

54. **Rigid angle-joints—**
55. Square type,
56. Socket.
58. **Adjustable length—**
59. Screw and yoke,
60. Right-and-left screw,
61. Screw and swivel,
62. Screw.
63. **Ribbon, band, or flat rod—**
64. Interlocked or lapped—
65. Sleeved.
75. **Flexible rod or strand—**
76. Intermediately-coupled fasteners,
77. Interlocked or lapped—
78. Sleeved—
79. Transverse pins,
80. Offset or knotted end and sleeve,
Socket—
82. With hook, bail or eye,
83. Binding-grapple with hook, bail or eye.
85. **Flexible-material joint—**
86. Spring.
87. **Ball and socket—**
88. Secant,
89. Forked socket,
90. Right-angled.
91. **Swiveled.**
92. **Hinged—**
93. Right-angled—
94. Self-adjusting journal,
95. Hooked,
96. Transverse pin,
97. T-head,
98. Sleeve,
99. Lock,
100. Forked,
101. Lapped.
103. **Interlocked or lapped—**
104. Sleeve—
105. Screw.
107. **Flanged rod and flanged coupling-nut.**
108. **Sleeve—**
109. Indenting,
110. Flexed,
111. Divided,
112. Bolted flange,
113. Upset rod,
114. Wedged,
115. Binding-detent,
116. Flanged coupling-nut,
117. Screw,
118. Clamp.
119. **Socket—**
120. Integral with tool,
122. Spring-pressed detent,
124. Expanded rod end,
125. Screw,
126. Friction-grip.
127. **Doweled.**
128. **Screw-connected wooden rods.**
129. **Bolted flanges.**
130. **Flanged.**

28.—JOINT-PACKINGS.*

1. **Miscellaneous.**
2. **Journal-box linings.**
3. **Sectional.**

29.—TYING CORDS OR STRANDS.*

1. **Miscellaneous.**
2. **Knotters—**
3. Weaver's knot,
4. Square knot,
5. Rotary lateral bill—
6. Swinging knotter-frame,
7. Sliding jaw,
8. Pivoted inner jaw—
9. Angular drive—
10. Notched-disk cord-holder,
11. Bills,
12. Sleeve and spindle,
13. Cord-holders—
14. Notched disk,
15. Cord-guides,
16. Needles.
17. **Hand implements.**

90.—PRIME-MOVER DYNAMO PLANTS.*

1. **Miscellaneous.**
2. **Heating plants.**
3. **Train.**
4. **Plural prime mover.**
5. **Alternating current, rotary field and armature.**
6. **Multiple-armature dynamo.**
7. **Electric control—**
8. Excitation-dynamo,
Traction—
9. Electric traction-motor—
10. With starting and generating dynamo—
11. With generator,
12. Rotary field and armature,
13. Ignition,
14. With generator—
15. Rotary field and armature,
16. Battery,
17. Engine control,
18. As starter—
19. As generator—
20. Rotary field and armature,
21. Engine control,
22. Starting and generating dynamo—
23. Rotary field and armature—
24. Engine control—
25. Engine control—
26. Ignition,
27. Electric starting-motor with generator,
28. Electric starting-motor,
29. Rotary field and armature,
30. Demand-starters,
31. Starting and generating dynamo—
32. With generator—
33. Ignition,
34. Engine control—
35. Ignition,
36. Electric starting-motor with generator—
37. Ignition,
38. Electric starting-motor,
39. Rotary field and armature,
40. Engine control—
41. Ignition,
42. Tide and wave motors,
43. Fluid-current motors—
44. Wind.
45. **Traction.**
46. **Starting and generating dynamo.**
47. **Electric starting-motor with generator.**
48. **Electric starting-motor.**
49. **Rotary field and armature.**
50. **Battery.**
51. **Engine control.**
52. **Turbo-generators.**
53. **Tide and wave motors.**
54. **Fluid-current motors—**
55. Wind.

91.—TRACK-SANDERS.*

1. **Miscellaneous.**
2. **Wheel-slip control.**
3. **Fluid-delivery—**
4. Smoke and cinder,
5. Reversing—
6. Movable trap-valve,
7. Gravity conversion—
8. By-pass,
9. Horizontal trap-axis,
10. Vertical trap-axis,
11. Sand-traps,
12. Blast-nozzle cleaners,
13. Air-ports and screens.
14. **Brake-handle control.**
15. **Brake-system control.**
16. **Hand-valve control.**
17. **Alarms.**
18. **Jet in hopper.**
19. **Heaters—**
20. Electric,
21. Steam.
22. **Power-actuated—**
23. Electric,
24. Fluid.
25. **Sand-feeders—**
26. Reversing,
27. Chain,

* See Definitions of Revised Classes.

291.—TRACK-SANDERS—Continued.
Sand-feeders—Continued.
28. Oscillatory—
29. Cup,
30. Hopper,
31. Spout cut-off,
32. Rotary,
33. Screw,
34. Longitudinal slide,
35. Pivoted slide,
36. Vertical plunger—
37. Helical guide.
38. **Sand-hoppers**—
39. Wheel-guard,
40. Dome.
41. **Sand-delivery pipe**—
42. Cleaners—
43. Fluid,
44. Flexible,
45. Telescopic,
46. Nozzles—
47. Pivoted.
48. **Sand-screens.**

292.—CLOSURE-FASTENERS.*
1. **Miscellaneous.**
2. **Bolts**—
3. Multiple—
4. Sliding and rotary,
5. Sliding and swinging—
6. Combined motion—
7. Lever-operating means,
8. Sliding and hooked end,
9. Sliding and roller,
10. Sliding and spring arm,
11. Swinging and hooked end,
12. Swinging and roller,
13. Swinging and spring-arm,
14. Double-acting—
15. Roller,
16. Sliding,
17. Spring-arm,
18. Swinging,
19. Spring-arm—
20. Combined motion,
21. Emergency operating means,
22. Gear,
23. Roller,
24. Hooked end—
25. Operating means—
26. Link and lever,
27. Cam,
28. Flexible,
29. Lever,
30. Push or pull rod,
31. Rigid,
32. Sliding—
33. Operating means—
34. Cam and lever,
35. Lever and push or pull rod,
36. Link and lever,
37. Cam,
38. Flexible,
39. Gear,
40. Lever,
41. Push or pull rod,
42. Rigid,
43. Screw,
44. Swinging—
45. Operating means—
46. Cam and lever,
47. Link and cam,
48. Link and lever,
49. Cam,
50. Flexible,
51. Gear,
52. Lever,
53. Push or pull rod,
54. Rigid,
55. Screw,
56. Swinging and hooked end, multiple head,
57. Sliding and rotary—
58. Combined motion,
59. Multiple head,
60. Spring-projected—
61. Combined motion,
62. Spring-retracted,
63. Sliding and swinging—
64. Operating means—
65. Cam,
66. Lever,
67. Rigid,
68. Multiple head,
69. Spring-retracted,
70. Double-acting—
71. Sliding and swinging,
72. Gear,
73. Roller,

292.—CLOSURE-FASTENERS—Contd.
Bolts—Continued.
Double-acting—Continued.
74. Sliding—
75. Roller,
76. Spring-arm—
77. Roller,
78. Swinging—
79. Roller,
80. Spring-arm—
81. Operating means—
82. Link and lever,
83. Cam,
84. Flexible,
85. Lever,
86. Push or pull rod,
87. Rigid—
88. Seal-catch,
89. Swinging catch,
90. Screw,
91. Multiple head,
92. Emergency operating means—
93. Panel,
94. Platform,
95. Hooked end—
96. Operating means—
97. Link and lever,
98. Cam,
99. Closure,
100. Lever,
101. Rigid—
102. Closure-catch,
103. Friction-catch,
104. Padlock or seal catch,
105. Screw-catch,
106. Sliding catch,
107. Spring-arm catch,
108. Swinging catch,
109. Sliding and swinging—
110. Operating means—
111. Cam,
112. Gear,
113. Lever,
114. Rigid,
115. Screw,
116. Multiple head—
117. Operating means—
118. Lever,
119. Push or pull rod,
120. Rigid,
121. Spring-projected—
122. Operating means—
123. Link and lever,
124. Cam,
125. Flexible,
126. Lever,
127. Push or pull rod,
128. Rigid,
129. Spring-retracted,
130. Gravity-actuated—
131. Operating means—
132. Cam,
133. Flexible,
134. Lever,
135. Push or pull rod,
136. Rigid,
137. Sliding—
138. Operating means—
139. Link and lever,
140. Cam,
141. Flexible,
142. Gear,
143. Lever,
144. Motor,
145. Rigid—
146. Closure-catch,
147. Friction-catch,
148. Padlock or seal catch,
149. Screw-catch,
150. Sliding catch—
151. Seal,
152. Spring-arm catch,
153. Swinging catch—
154. Seal,
155. Screw,
156. Multiple head—
157. Operating means—
158. Link and lever,
159. Cam,
160. Gear,
161. Lever,
162. Rigid,
163. Spring-projected—
164. Operating means—
165. Cam and lever,
166. Lever and push or pull rod,
167. Link and lever,
168. Link and push or pull rod,
169. Cam,
170. Sliding cam,
171. Flexible,

292.—CLOSURE-FASTENERS—Contd.
Bolts—Continued.
Sliding—Continued.
Spring-projected—Contd.
Operating means—Contd.
172. Gear,
173. Lever,
174. Push or pull rod,
175. Rigid,
176. Screw,
177. Spring-retracted—
178. Friction-catch,
179. Sliding catch,
180. Spring-arm catch,
181. Swinging catch,
182. Cam-operating means,
183. Gravity-actuated—
184. Operating means—
185. Cam and lever,
186. Link and lever,
187. Cam,
188. Lever,
189. Rigid,
190. Curved,
191. End lever,
192. Pivoted end,
193. Roller,
194. Swinging—
195. Operating means—
196. Link and lever,
197. Cam,
198. Closure,
199. Gear,
200. Lever,
201. Motor,
202. Rigid—
203. Closure-catch,
204. Friction-catch,
205. Padlock or seal catch,
206. Screw-catch,
207. Sliding catch—
208. Seal,
209. Spring-arm catch,
210. Swinging catch—
211. Seal,
212. Screw,
213. Multiple head—
214. Operating means—
215. Cam,
216. Closure,
217. Lever,
218. Rigid,
219. Spring-projected—
220. Operating means—
221. Lever and push or pull rod,
222. Link and cam,
223. Link and lever,
224. Cam,
225. Flexible,
226. Lever,
227. Push or pull rod,
228. Rigid,
229. Spring-retracted,
230. Gravity-actuated—
231. Operating means—
232. Cam and lever,
233. Link and lever,
234. Cam,
235. Flexible,
236. Lever,
237. Push or pull rod,
238. Rigid,
239. Roller,
240. Swinging and camming—
241. Rigid operating means,
Spring-projected—
242. Rigid operating means,
243. Seal-rupturing devices,
244. Reversible—
245. Cam and lever operating means,
246. Loop—
247. Sliding and swinging, lever-operating means,
248. Sliding catch,
249. Spring-arm catch,
250. Swinging catch,
251. Screw.
252. **Ball.**
253. **Bendable securers.**
Bolt-releasers—
254. Free-end-engaging means,
255. Foot-operated,
256. **Clamps**—
257. Cam-operating means,
258. Portable.
259. **Cross-bars**—
260. Screw-operating means
261. **Cylinder.**
262. **Extension-link** –
263. Multiple,
264. Chain,

* See Definitions of Revised Classes.

292.—CLOSURE-FASTENERS—Contd.
Extension-link—Continued.
265. Notched bar—
266. Sliding catch,
267. Swinging catch,
268. Slotted bar—
269. Sliding catch,
270. Swinging catch,
271. Notched keeper,
272. Slotted keeper,
Slotted or notched keeper—
273. Sliding catch,
274. Swinging catch,
275. Friction-catch,
276. Screw-catch,
277. Sliding catch,
278. Swinging catch.
Gear—
279. Sliding catch,
280. Swinging catch.
281. **Hasps—**
282. Seal-catch,
283. Sliding catch—
284. Seal,
285. Swinging catch—
286. Seal,
287. Seal-rupturing devices.
288. **Portable.**
289. **Portable securer plate or bar—**
290. Sliding and swinging holding member,
291. Screw-holding member,
292. Sliding holding member—
293. Screw-operating means,
294. Screw-catch,
295. Sliding catch,
296. Swinging catch,
297. Swinging holding member—
298. Catch devices.
299. **Rings.**
300. **Rigid engaging means—**
301. Screw-catch,
302. Sliding catch,
303. Spring-arm catch,
304. Swinging catch.
305. **Rod-clamps—**
306. Friction-plate catch.
307. **Seals—**
308. Compressible disk—
309. Reinforced,
310. Sheet metal,
311. Multiple—
312. Sheet metal,
313. Hard and soft metal,
314. Compressible rivets and eyelets,
315. Distorted shackle,
316. Driving,
317. Interengaging shackle ends, inclosing housing,
Rigid shackle ends—
318. Resilient engaging means,
319. Resilient and rigid engaging means,
Resilient shackle ends—
320. Rigid engaging means,
321. Resilient engaging means,
322. Single piece, spring-catch,
323. Shiftable catch, shackle operated,
324. Split-ring catch, shackle-operated,
325. Strap-end fasteners,
326. Rigid disk, distorted shackle.
327. **Seal-bolts.**
Shackles—
328. Seal-catch,
329. Sliding catch, seal,
330. Swinging catch, seal,
331. Seal-rupturing devices.
332. **Trippers—**
333. Sliding detent,
334. Spring-arm detent,
335. Sliding bolt, swinging detent,
336. Swinging bolt, swinging detent.
337. **Bolt-casings.**
338. **Braces—**
339. Portable.
340. **Keepers—**
341. Segment.
342. **Wedges—**
343. Portable.
344. **Weights.**
345. **Blind-slat holders.**
346. **Bolt-guards.**
347. **Knobs.**
348. **Knob-attaching devices—**
349. Friction,
350. Screw—
351. Guards,
352. Sliding,
353. Spring-arm,

292.—CLOSURE-FASTENERS—Contd.
Knob-attaching devices—Con.
354. Swinging,
355. Wedge.
356. **Knob-bearings.**
357. **Knob rose-plates.**
358. **Latch-spindles.**
359. **Latch-spindle catches.**

293.—VEHICLE-FENDERS.*
1. **Miscellaneous.**
2. **With car control—**
3. Cable-grip,
4. Electric circuit,
5. Air-brake,
6. Track-brake,
7. Chock-block,
8. Wheel-shoe.
9. **Motor-actuated—**
10. Electric.
11. **Car-axle actuated.**
12. **Dirigible—**
13. Automatic.
14. **Car and truck equalizer.**
15. **Body-traps—**
16. Lateral closure.
17. **Rotary—**
18. Diverging rolls,
19. Horizontal wheel,
20. Endless belts.
21. **Side projector—**
22. Twin sections,
23. Single tilter.
24. **Forward projector—**
25. Spring-actuated—
26. Plunger type.
27. **Lazy-tongs.**
28. **Rear-slide storage—**
29. Folding upright.
30. **Double-ender interconnected.**
31. **Dash and wheel—**
32. Front-lift back-drop,
33. Trip-gate.
34. **Drop-fender—**
35. Trip-gate,
36. Contact on fender,
37. Buffer-trip.
38. **Front barrier—**
39. Tilting receiver,
40. Net-tension operated.
41. **Releasable upright apron.**
42. **Scoop type—**
43. Wheeled,
44. Hinged—
45. Folding—
46. Net-roller,
47. Swing-link.
48. **Pilot type—**
49. Roller-front.
50. **Foldable side wings.**
51. **Frame-and-web form—**
52. Automobile,
53. Rake-tooth.
54. **Buffer type—**
55. Bar,
56. Metallic spring.
57. **Side fender.**
58. **Wheel-tread.**

294.—HANDLING—HAND AND HOISTLINE IMPLEMENTS.*
1. **Miscellaneous.**
2. **Miscellaneous compound implements—**
3. Plier or tong type.
4. **Barrel-roller type.**
5. **Ear-corn holders.**
6. **Plate-turners.**
7. **Pancake-turner type—**
8. Special turning element.
9. **Stove implements—**
10. Combined,
11. Fire-tong,
12. Lid-lifter—
13. Pivoted jaw,
14. Poker.
15. **Hand-bars and hand-barrows—**
16. Opposing jaws,
17. Cant-hook type,
18. Railway coupling-tools.

294.—HANDLING—HAND AND HOISTLINE IMPLEMENTS—Continued.
19. **Poles—**
20. Globe-manipulators—
21. Rotatable graspers,
22. Store goods—
23. Compound tool,
24. Compound tool.
25. **Hand and finger attachments.**
26. **Hand-hook type.**
27. **Plate and receptacle lifters—**
28. Pivoted graspers—
29. Rim and bottom engaging,
30. Axially-extending handle,
31. Rim-gripping jaws,
32. Bottom-engaging,
33. Resilient,
34. Sliding grapsers.
35. **Tweezers.**
36. **Pliers and tongs—**
37. Parallel pivoted rods,
38. Tandem levers,
39. Multiple jaw,
40. Expanding,
41. Locked jaws,
42. Sliding jaw,
43. Crossed handles—
44. Adjustable pivot,
45. Pivoted jaw-piece,
46. Parallel jaws,
47. Spring-pressed,
48. Jaw attachments.
49. **Hand forks and shovels—**
50. Fork-tine or shovel clearers,
51. Convertible and combined—
52. Fork and rake,
53. Pivoted,
54. Snow-shovel type,
55. Scoop,
56. Edge-guards,
57. Handles—
58. Auxiliary,
59. Attachments—
60. Foot-pieces,
61. **Spears.**
62. **Brick-carriers—**
63. Hoist-line frames.
64. **Vacuum—**
65. Frames.
66. **Submarine hooks and grapples.**
67. **Frames and cages.**
68. **Hoisting-bucket type—**
69. Bottom or side discharge—
70. Twin bucket-sectors,
71. Twin doors,
72. Vertically-sliding closure,
73. Tilting discharge.
74. **Hoist-line slings—**
75. Latch release—
76. Bottom,
77. Net.
78. **Cable-and-hook tackle.**
79. **Gambrels—**
80. Grappling.
81. **Spacing hoist-bar.**
82. **Hoist-line or grab hooks—**
83. Releasing—
84. Boat.
85. **Overhead-beam hooks and grapples.**
86. **Grapples—**
87. Multiple object,
88. Magnet or piston controlled,
89. Lewises,
90. Collar-engaging—
91. Rigid yoke,
92. Rigid gripper,
93. Expanding—
94. Cam-spread jaws—
95. Pivoted,
96. Slip-wedge,
97. Pivoted—
98. Hay-fork type,
99. Resilient—
100 Separate sliding operator,
101. Pivoted cam and hook,
102. Socket and slip-wedge,
103. Fixed and movable jaw—
104. Pivoted jaw—
105. Hay-fork type,
106. Pivoted jaws—
107. Hay-fork type—
108. With auxiliary retainer,
109. Latched,
110. Automatic,
111. Separate-cable operator—
112. Suspension,
113. Surrounding frame—
114. Opposing load-engaging cams,

* See Definitions of Revised Classes.

294.—HANDLING—HAND AND HOISTLINE IMPLEMENTS—Contd.
- **Grapples**—Continued.
  - Pivoted jaws—Continued.
    - 115. Separate sliding operator,
    - 116. Cam-operated,
    - 117. Auxiliary operating-handle,
    - 118. Crossed levers—
      - 119. Tandem tongs.
  - 120. **Hay-fork type**—
    - 121. Corkscrew,
    - 122. Single tilting fork—
      - 123. With auxiliary retainer,
      - 124. Latch release,
    - 125. Combined harpoon and fork,
    - 126. Harpoon—
      - 127. Mechanically-spread barbs—
        - 128. Multiple—
          - 129. Latch release,
          - 130. Latch release.
  - 131. **Shield devices.**

295.—RAILWAY-WHEELS AND AXLES.*
- 1. **Wheels**—
  - 2. With crank-pin,
  - 3. Epicyclic,
  - 4. Rack-rail,
  - 5. Attached gear,
  - 6. Counterbalance,
  - 7. Sound-deadeners,
  - 8. Composite cast,
  - 8.5. Convertible road and rail,
  - 9. Movable flange,
  - 10. Loose tires,
  - 11. Tire-cushions—
    - 12. Pneumatic,
    - 13. Wooden blocks,
    - 14. Metallic springs,
  - 15. Tire-fasteners—
    - 16. By welding,
    - 17. By casting,
    - 18. Integral lugs,
    - 19. Transverse keys,
    - 20. Bolted lap-flanges,
  - 21. Webs—
    - 22. Sheet metal—
      - 23. With filler,
      - 24. With integral tire,
  - 25. Spokes—
    - 26. Cast in,
  - 27. Integral cast—
    - 28. Hollow webs,
  - 29. Wrought,
  - 30. Composition,
  - 31. Wheel-tread—
    - 32. Multiple rollers,
    - 33. Multiple,
    - 34. Form,
  - 35. Bushings.
- 36. **Axles**—
  - 37. Sleeved and fixed wheels,
  - 38. Twin middle bearing,
  - 39. Couplings—
    - 40. Bolted flange,
  - 41. Mine-car—
    - 42. Axle-brackets.
  - 43. **Wheel-attaching devices**—
    - 44. Loose wheel—
      - 45. Exterior hub-groove—
        - 46. Imposed roller,
      - 47. Axle-groove—
        - 48. Lock-bolt,
      - 49. Axle end stop—
        - 50. Linchpin.

296.—LAND-VEHICLES, BODIES AND TOPS.*
- 1. **Bodies**—
  - 2. Cutter,
  - 3. Racks—
    - 4. Barrel,
    - 5. Tobacco,
    - 6. Hay—
      - 7. Extensible,
      - 8. Metallic,
      - 9. Irons,
  - 10. Convertible box—
    - 11. Hay and box—
      - 12. Stock—
        - 13. Pivoted top boards,
        - 14. Pivoted side boards,
  - 15. Grain-tanks,
  - 16. Hearses—
    - 17. Combined carriages,
    - 18. Coffin-retaining devices,

296.—LAND-VEHICLES, BODIES AND TOPS—Continued.
- **Bodies**—Continued.
  - 19. Ambulances—
    - 20. Wheeled stretchers,
  - 21. Advertising and displaying,
  - 22. Lunch-wagons,
  - 23. Camping,
  - 24. Inclosed compartments,
  - 25. Dropped bottom,
  - 26. Extensible,
  - 27. Collapsible,
  - 28. Frame structure—
    - 29. Corners and joints—
      - 30. Metallic reinforcements,
    - 31. Materials,
  - 32. Top boards—
    - 33. Baffle,
    - 34. Spacing devices,
  - 35. Body-securing devices
  - 36. Top and side board securing devices,
  - 37. Auxiliary package-compartments.
  - 38. Drip-pans,
  - 39. Linings,
  - 40. Ties,
  - 41. Wear-strips,
  - 42. Stay-irons,
  - 43. Stakes and sockets,
  - 44. Doors and windows—
    - 45. Shiftable side panels,
    - 46. Laterally-movable link-hinged,
    - 47. Horizontally sliding,
    - 48. Telescoping sections.
    - 49. Pivotally-connected sections,
  - 50. End-gates—
    - 51. Combined types,
    - 52. Vertically removable,
    - 53. Rearwardly removable—
      - 54. Telescoping sections,
      - 55. Pivotally-connected sections,
    - 56. Upwardly swinging,
    - 57. Downwardly swinging—
      - 58. Shovel-board type—
        - 59. Readily removable—
          - 60. Box-engaging frames or clips,
      - 61. Combined loading-chute,
      - 62. Combined steps,
  - 63. Seats with body modifications—
    - 64. Seating arrangements,
    - 65. Shifting seats—
      - 66. Seat-forming body parts,
      - 67. Attached side panels,
      - 68. Door or end-gate operated,
    - 69. Seats convertible to other devices,
  - 70. Dashboards—
    - 71. Rails and handles,
    - 72. Securing devices—
      - 73. Pivoted,
      - 74. Extensions,
    - 75. Footrests,
    - 76. Boots,
    - 77. Lap-robe holders and locks,
    - 78. Storm-front shields, aprons, and robes—
      - 79. Top-supported windowed panels—
        - 80. Combined aprons,
      - 81. Robes,
      - 82. Aprons,
      - 83. Curtains,
      - 84. Wind-shields—
        - 85. Rear seat,
        - 86. Connected horizontally-pivoted panels—
          - 87. Edge to edge,
          - 88. Link-hinged,
        - 89. Vertically-movable panels,
        - 90. Single panel,
        - 91. Deflected protecting air-currents,
        - 92. Hinges,
        - 93. Weather-strips,
        - 94. Ventilators,
        - 95. Auxiliary protectors—
          - 96. Pivoted panels,
      - 97. Glare-screens.
- **Tops**—
  - 98. Roll-up covers,
  - 99. Extensions,
  - 100. Load-covers—
    - 101. Refuse,
  - 102. Standing—
    - 103. Detachable limousine type,
    - 104. Spaced parallel bows—
      - 105. Collapsible,
      - 106. End-gate,

296.—LAND-VEHICLES, BODIES AND TOPS—Continued.
- **Tops**—Continued.
  - 107. Let-down type—
    - 108. Pivotally-connected sections,
    - 109. Collapsible spaced parallel bows,
    - 110. Plural up position,
    - 111. Single bow group—
      - 112. Raising and lowering devices—
        - 113. Spring,
    - 114. Two bow groups—
      - 115. Raising and lowering devices,
    - 116. Outrigger type—
      - 117. Raising and lowering devices,
    - 118. Bows and slats—
      - 119. Irons,
      - 120. Braces,
      - 121. Joints and couplings—
        - 122. Brace and bow pivots,
      - 123. Shifting rails,
      - 124. Down-supports—
        - 125. Prop-block cushions—
          - 126. Spring,
        - 127. Bow-spacers,
        - 128. Clamping—
          - 129. With bow-spacers,
          - 130. Strap,
        - 131. Top-attached,
        - 132. Body and top attached—
          - 133. Spring,
          - 134. Spring,
    - 135. Valance.
    - 136. Dust-covers,
    - 137. Roof or cover structure,
    - 138. Curtains—
      - 139. Door-opened,
      - 140. Overhead storage—
        - 141. Rolled or folded,
      - 142. Vertical roller,
      - 143. Horizontal roller,
      - 144. Backstays,
      - 145. Windowed.

297.—THERMOSTATS AND HUMIDOSTATS.*
- **Humidostats**—
  - 1. Absorption,
  - 2. Wet and dry bulb.
- **Thermostats**—
  - 3. Expanding fluid—
    - 4. Multiple element,
    - 5. Vapor-pressure generator,
    - 6. Float or piston operation,
    - 7. Balanced,
    - 8. Bellows type,
    - 9. Wafer type,
    - 10. Bourdon type,
  - 11. Expanding solid—
    - 12. Multiple element,
    - 13. Conduit,
    - 14. Concentric elements,
    - 15. Compound bar—
      - 16. Coil.

298.—LAND-VEHICLES, DUMPING.*
- 1. **Miscellaneous.**
- 2. **Hand trucks and barrows**—
  - 3. Single wheel.
- 4. **Sleds.**
- 5. **Two-wheel**—
  - 6. With cover or end-gate control
- 7. **With load-delivering chute.**
- 8. **Plural load units.**
- 9. **Rotating and tilting.**
- 10. **Rotating.**
- 11. **Elevating and tilting.**
- 12. **Sliding and tilting**—
  - 13. Side delivery only,
  - 14. Operating mechanism—
    - 15. Vehicle-motion controlled,
    - 16. Vehicle-motor controlled.
- 17. **Tilting**—
  - 18. Side delivery only,
  - 19. Operating mechanism—
    - 20. Vehicle-motion controlled,
    - 21. Vehicle-motor controlled—
      - 22. Fluid-pressure operators,
    - 23. With cover or end-gate control.
- 24. **Hopper type**—
  - 25. Pivoted sections,
  - 26. Tilting bottom,

* See Definitions of Revised Classes.

298.—LAND-VEHICLES, DUMPING—Continued.

Hopper-type—Continued.

27. Bottom-opening—
28. Removable bottom boards,
29. Hinged doors—
30. Transversely hinged only,
31. Longitudinally hinged only—
32. Parallel swinging,
33. Oppositely swinging—
34. Inwardly only,
35. Outwardly only—
36. Vertically movable
37. Closing-equalizers.
38. **Catches.**

299.—FLUID SPRINKLING, SPRAYING, AND DIFFUSING.*

1. **Miscellaneous.**
2. **Fountains—**
3. Ornamental—
4. Illuminated,
5. Reversible,
6. Fluid-pressure feed,
7. Pump or piston feed,
8. Drinking—
9. Combined faucet and fountain—
10. Single outlet,
11. Swinging attachment,
12. Catch-basin and waste-outlet—
13. Valved,
14. Liftable bubble-nozzle,
15. Nozzles or bubble-cups—
16. Valved,
17. Portable drinking-tubes.
18. **Pattern sprayers or sprinklers—**
19. Roses and pipes.
20. **Slow diffusers—**
22. Drip,
23. Barometric feed,
24. Holders.
25. **Intermittent discharge.**
26. **Continuously-varied discharge.**
27. **Serial discharges.**
28. **Rain-producers.**
29. **Ambulant discharge and supply—**
30. Vehicle attachments,
31. Railroad-sprinklers—
32. Stock-alarms,
33. Antirobber,
34. Street-oilers—
35. Heated,
36. Street-flushers,
37. Reciprocating discharging member,
38. Rotating discharging member,

299.—FLUID SPRINKLING, SPRAYING, AND DIFFUSING—Contd.

Ambulant discharge and supply—Continued.

39. Adjustable discharging member—
40. Fluid-pressure feed,
41. Liquid-pump feed—
42. Return by-pass,
43. Fluid-pressure feed—
44. Hydrant-charged,
45. Liquid-pump feed—
46. Return by-pass.
47. **Ambulant discharge and stationary supply—**
48. Coke-quenchers,
49. Spray-fluid propelled—
50. Reaction,
51. Intermittent supply,
52. Open tank or trough supply,
53. Associated hose-reel,
54. Revolving,
55. Reciprocating,
56. Nozzles—
57. Adjustable.
58. **Non-ambulant discharge and supply—**
59. Nozzle flushers and cleaners,
60. Embedded—
61. Disappearing sprinklers,
62. Moving discharging member—
63. Rotating disk or drum,
64. Spray-fluid actuated—
65. Wrigglers,
66. Piston,
67. Rotor—
68. External,
69. Reaction—
70. Multiple sets,
71. Oscillatory,
72. Adjustable discharging member—
73. Nozzles—
74. With deflectors,
75. Nozzles—
76. With deflectors.
77. **Combined hose-holder and fluid-supply—**
78. Reels—
79. Automatic valves,
80. Automatic valves.
81. **Overhead vehicle-washers.**
82. **Locomotive-cab squirts.**

Sprayers—

83. Dissolvers and mixers—
84. Lateral chamber—
85. Piston,
86. Multiple fluid—
87. Steam,
88. Hand-pump atomizer type—
89. Combined with pressure-feed,
90. Collapsible ejector—
91. Reservoir-supply,
92. Piston-feed—
93. Threaded rod,
94. Syringe type,
95. Fluid-pressure feed—
96. Air-compressor,

299.—FLUID SPRINKLING, SPRAYING AND DIFFUSING—Contd.

Sprayers—Continued.

97. Liquid-pump feed—
98. Gravity-intake,
99. Combined receptacle and syringe type,
100. Receptacle and pump connecting means.
101. **Sprinklers, gravity-feed—**
102. Can-and-rose type.
103. **Shakers.**
104. **Sprinkler-pipes—**
105. Couplings,
106. Nozzled, and regulable outlet.
107. **Nozzles—**
108. Heads,
109. Air-supply devices for firemen,
110. Penetrating,
111. Spray-poles and attachments,
112. Handled,
113. Fluid-rotation controllers—
114. Whirlers—
115. Centrally and peripherally ported—
116. Valved,
117. Convertible solid stream,
118. Valved,
119. Adjustable whirler member,
120. Whirler-inserts,
121. Deflectors—
122. Cutters,
123. Spray-fluid actuated—
124. Ball,
125. Nozzle-closures,
126. Rotating,
127. Adjustable—
128. Transversely slidable,
129. Swinging or pivoted,
130. Axially movable—
131. Valve-carried,
132. Adjustable or variable discharge-port,—
133. Automatic,
134. Constrictors,
135. Swinging throttlers,
136. Axially-reciprocable throttlers,
137. Interchangeable ported members,
138. Terminal cock,
139. Transversely-movable port-carrying member,
140. Multiple inlet,
141. Multiple outlet—
142. Aspiratory,
143. Converging,
144. Valved—
145. Combined central and annular outlets—
146. Compound valve,
147. Rotary plug or disk,
148. Reciprocating valve,
149. Valved—
150. Axially movable,
151. Rotary—
152. Disk,
153. Spray-orifice,
154. Tapered and flattened.

* See Definitions of Revised Classes.

ALPHABETICAL INDEX OF CLASS AND SUBCLASS TITLES.

The following is an index of all class and subclass titles used in the Patent Office classification and of all words contained in those titles thought to be useful to searchers.

Names or other words not found in the classification titles are not indexed.

The significance of many of the titles in the index is obscure unless they are read in connection with the titles of the classes, the numbers of which follow the index titles.

The arrangement of titles is strictly alphabetical, except that phrases having the same first word are grouped together. Two words connected by a hyphen are treated as two words.

Thus:

Weight, Sash-cord fasteners.
Weight-testers, Fraud-preventives.
Weighted cylinders, Land-rollers.
Weights.

Not thus:

Weighted cylinders, Land-rollers.
Weights.
Weight, Sash-cord fasteners.
Weight-testers, Fraud-preventives.

A.

Abdominal, Bandaging, trusses. Cl. 128-96.
Abdominal, Bandaging, bandages. Cl. 128-167.
Abraded and roughened, Surface type. Cl. 41-39+.
Abrading materials and tools. Cl. 51-1+.
Abrasion, Lubricators, force-feed, fluid-operated. Cl. 184-60.
Abrasion, Machines. Cl. 91-36.
Absorbed gas, Packing chemicals. Cl. 23-29.
Absorbent. Cl. 34-1.
Absorbent. Cl. 183-4.
Absorbent: *See* Fixed reservoir or, Cl. 216.
Absorbent: *See* Moving reservoir or, Cl. 216.
Absorbent, Burners, liquid fuel. Cl. 158-96+.
Absorbent pads and material, Receptors. Cl. 128-296.
Absorbent sheet, Antismut devices. Cl. 101-419.
Absorbent web, Antismut devices. Cl. 101-417+.
Absorber, Refrigerators, liquefied gas. Cl. 62-93.
Absorber, Still-condenser, expander-circuit. Cl. 62-119.
Absorbers: *See* Shock. Cl. 56.
Absorbers, Fire-kindlers. Cl. 44-5.
Absorbing: *See* Shock. Cl. 105.
Absorbing-still condensing-expander. Cl. 62-120.
Absorption: *See* Torque by, Cl. 265.
Absorption, Humidostats. Cl. 297-1.
Abutment: *See* Rotary. Cl. 121.
Abutment: *See* Sliding. Cl. 121.
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Abutments and anchorages, Arch. Cl. 14-26.
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Accessories: *Cf.* Adjuncts.
Accessories: *Cf.* Attachments.
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Accumulator: *See* Heat. Cl. 237.
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Accumulators, Drilling, hill-planting machines, depositing mechanisms. Cl. 111-51.
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Acetylene. Cl. 48-1+.
Acetylene, Burners, gas. Cl. 158-101.
Acetylene, Gaseous-fuel burners. Cl. 67-105.
Acetylene, Processes. Cl. 48-216+.
Acid-proof: *Cf.* Antirust.
Acid-proof, Receptacles. Cl. 206-2.
Acid, sulfurous, Stock treatment, digestive. Cl. 92-11+.
Acids, mineral. Cl. 23-1.
Acoustics. Cl. 181.
Actinometers. Cl. 95-10.
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Actions: *See* Electric. Cl. 84.
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Actuated: *See* Gravity. Cl. 292.
Actuated: *See* Spray fluid. Cl. 299.
Actuated, Clocks, electric, pendulum. Cl. 58-30.
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Actuation: *See* Engineer's brake-valve. Cl. 246.
Actuation: *See* Fluid-motor. Cl. 246.
Actuation: *See* Fluid-pressure. Cl. 246.
Actuation: *See* Manual. Cl. 246.
Actuation: *See* Mechanical. Cl. 246.
Actuation: *See* Mechanical motor. Cl. 246.
Actuation: *See* Single direction. Cl. 246.
Actuation: *See* Special distributing-valve. Cl. 121.
Actuation: *See* Vehicle-energy. Cl. 246.
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Additional revolution, Rolling-contact machines, bed and cylinder, feeding or delivering. Cl. 101-280.
Additional-sheet associating, Associating and folding, sheet-associating. Cl. 270-51.
Additional-sheet associating, Associating and folding, sheet-associating, cylinder-collecting. Cl. 270-48+.
Additional-sheet associating, Associating and folding, web-associating and cylinder-collecting. Cl. 270-44.
Additional-sheet associating, With printing, associating and folding, rotary printer. Cl. 270-17.
Additional-sheet associating, With printing, associating and folding, rotary printer, longitudinal web-folding, cylinder-collecting, sheet-folding. Cl. 270-7.
Additional-sheet associating, With printing, associating and folding, rotary printer, longitudinal web-folding sheet-folding. Cl. 270-9.
Additional-sheet associating, With printing, associating and folding, rotary printer, sheet-associating. Cl. 270-15.
Additional-sheet associating, With printing, associating and folding, rotary printer, sheet-associating, cylinder-collecting. Cl. 270-14.
Additional-sheet associating, With printing, associating and folding, rotary printer, web-associating and cylinder-collecting. Cl. 270-11.
Additional traction-wheel. Cl. 180-15.
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Adjustable, Ambulant discharge and stationary supply, nozzles. Cl. 299-57.
Adjustable and collapsible, Shade, reflector, or globe supports. Cl. 240-117.
Adjustable and divided, Finger-rings. Cl. 63-16.
Adjustable angle. Cl. 287-11+.
Adjustable angle, Scythe type. Cl. 287-4+.
Adjustable, Apparel, laying out. Cl. 33-16.
Adjustable, Apparel, laying out, patterns, and charts. Cl. 33-14+.
Adjustable arm, Display-racks. Cl. 211-15.
Adjustable arms, Folding and adjustable backs. Cl. 155-159.

Adjustable arms, Soldering, clamps. Cl. 113-104.
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Adjustable backs: *See* Folding and, Cl. 155.
Adjustable backs or leg-rests, Special, baby-jumpers. Cl. 155-21.
Adjustable bars, Printing members, chases. Cl. 101-393.
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Adjustable blades, Impellers, paddle-wheel. Cl. 170-155.
Adjustable blades, Impellers, screw. Cl. 170-174.
Adjustable blades or buckets, Wind-motors, rotary, transverse axis. Cl. 170-31+.
Adjustable blades, Water-motors, endless chain. Cl. 170-93.
Adjustable blades, Water-motors, rotary, parallel axis. Cl. 170-132.
Adjustable blades, Water-motors, rotary, transverse axis. Cl. 170-123.
Adjustable blades, Wind-motors, rotary, parallel axis. Cl. 170-59+.
Adjustable, Bodies, sectional. Cl. 251-157.
Adjustable, Book and music holders, base supported. Cl. 45-80.
Adjustable, Book and music holders, bracket-supported. Cl. 45-82.
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Adjustable, Brackets, shelf. Cl. 248-19.
Adjustable, Buttons and fasteners. Cl. 24-91
Adjustable, Cameras, plate-holders, plate-fastenings and kits. Cl. 95-69.
Adjustable, Casters. Cl. 16-164.
Adjustable center, Bandaging, trusses, pads. Cl. 128-116.
Adjustable combustion-chamber. Cl. 123-48.
Adjustable, Cuff-holders. Cl. 24-42.
Adjustable cutter-axis, Milling. Cl. 90-16+.
Adjustable cutting-lip, Augers. Cl. 145-127.
Adjustable deflector, Deflection, upflow-inlet, upflow-outlet. Cl. 183-101.
Adjustable deflector, Deflection, vortical whirl, vertical, tangential inlet, upflow-outlet. Cl. 183-86.
Adjustable desk-tops, Special, school desk and seat type. Cl. 155-4.
Adjustable dies, Forging, power hammers and presses, hammer-anvil cam-operated. Cl. 78-22.
Adjustable, Direction-indicator, levels, and plumbs, bubble. Cl. 33-213+.
Adjustable, Direction-indicators, levels, and plumbs, pendulum. Cl. 33-218+.
Adjustable discharging member, Ambulant discharge and supply. Cl. 299-39+.
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Adjustable, Elements, take-ups. Cl. 112-246.
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Adjustable, Eyeglasses and spectacles, nose-grips. Cl. 88-49+.
Adjustable face, Cutting, die, dies. Cl. 164-31.
Adjustable face, House-wiring, outlet-boxes. Cl. 247-6.
Adjustable, Fire-pots and linings. Cl. A126-145.
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Adjustable for trimming, Light-supports. Cl. 240-63+.
Adjustable fulcrum, Vises, pivoted jaw. Cl. 81-23+.
Adjustable, Furnace structure, fire-box. Cl. 110-89.
Adjustable, Grates. Cl. 126-153+.
Adjustable guides, Forging, power hammers and presses, sliding head. Cl. 78-37.
Adjustable, Hame and trace connectors. Cl. 54-31.
Adjustable, Hame-tugs. Cl. 54-33.
Adjustable header, Machines, eye-headed tool, ax. Cl. 76-8.
Adjustable height, Floating. Cl. 14-28.
Adjustable height, Hand and arm rests. Cl. 120-56.
Adjustable, Hoes. Cl. 55-38.
Adjustable, Hoes, compound. Cl. 55-40.
Adjustable, Hoes, horizontal. Cl. 55-42.
Adjustable, Impellers, paddle-wheel, feathering-blades, parallel axes, positively operated. Cl. 170-148.
Adjustable, Impellers, paddle-wheel, feathering-blades, radial axes, positively operated. Cl. 170-154.
Adjustable, Impellers, paddle-wheel, feathering-blades, sliding. Cl. 170-145.
Adjustable, Impellers, screw, projected blades. Cl. 170-160.
Adjustable joint-clamps, Rail-joints, splice-bars. Cl. 238-263.
Adjustable, Lasts. Cl. 12-134.
Adjustable leg, Endless. Cl. 193-3.
Adjustable length. Cl. 285-199.
Adjustable length. Cl. 287-58+.
Adjustable light or reflector, Lanterns, projectors. Cl. 240-44.
Adjustable, Miter-boxes. Cl. 143-87+.
Adjustable motor, Water-motors, endless chain. Cl. 170-90.
Adjustable mouthpieces, Bench-planes. Cl. 145-15.
Adjustable mouthpieces, Spokeshaves. Cl. 145-56.
Adjustable, Necktie-fasteners, button-engaging. Cl. 24-57.
Adjustable, Non-stop valves, reciprocating disk or plug, supplemental operator, spring-actuated. Cl. 251-145.
Adjustable, Non-stop valves, reciprocating disk or plug, supplemental operator, weight-actuated. Cl. 251-148.
Adjustable, Nozzles, deflectors. Cl. 299-127+.
Adjustable or folding seats, Oscillating, swings. Cl. 155-68.
Adjustable or variable discharge-port, Nozzles. Cl. 299-132+.
Adjustable, Oscillating, rocking, folding: Cl. 155-76.
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Adjustable, Periodic, combined, rotary and cam. Cl. 200-22.
Adjustable, Periodic, multiple contact, rotary. Cl. 200-25.
Adjustable, Periodic, rotary. Cl. 200-29.
Adjustable, Picture-hangers. Cl. 40-145.2+.
Adjustable pin, Annunciators, electric, single alarm. Cl. 161-4.
Adjustable pipe-collar, Stoves, heating. Cl. 126-82.
Adjustable pivot, Pliers and tongs, crossed handles. Cl. 294-44.
Adjustable, Plows, wheel, guide-wheels, multiple. Cl. 97-75.
Adjustable position, Compressing and binding, cord-knotter type. Cl. 56-434+.
Adjustable position, Standing-grain gatherers, rotating reel, horizontal axis. Cl. 56-221+.
Adjustable, Rail, connections. Cl. 256-67.
Adjustable rand-guide, Sole and heel, edge-trimmers, rotary cutter. Cl. 12-90.
Adjustable, Reamers. Cl. 77-75+.
Adjustable roller-frame, Cornstalk type, pickers or huskers, roller, movable gatherer, endless chain only. Cl. 56-112.
Adjustable saw, Circular-saw machines. Cl. 143-35+.
Adjustable, Screw-threading, implements, dies, radial chaser. Cl. 10-121.
Adjustable, Screw-threading, tapping, implements, taps. Cl. 10-142.
Adjustable seats. Cl. 155-115+.
Adjustable seats: *See* Angularly. Cl. 155.
Adjustable, Selective or progressive, numbering, printing members, drum series, planetary. Cl. 101-87.
Adjustable shaft, Mechanical movements, steering-gear type. Cl. 74-80.
Adjustable shelf-partitions, Bookcases. Cl. 45-53.
Adjustable shelves and shelf-supports, Bookcases. Cl. 45-54.
Adjustable, Single-throw lever. Cl. 254-129+.
Adjustable, Single-throw lever and bar. Cl. 254-119.
Adjustable, Single-throw lever and bar, sliding bar. Cl. 254-116+.
Adjustable slots, Slotted conduit. Cl. 104-146.
Adjustable, Special engaging elements. Cl. 254-134.
Adjustable, Spindle-bearing, combined. Cl. 64-77.
Adjustable spoke, Wheels, fellies, spoke connections. Cl. 21-172+.
Adjustable standards: *See* Vertically. Cl. 280.
Adjustable, Stitch-forming, multiple needle. Cl. 112-167.
Adjustable stock-rest, Work-benches. Cl. 144-287.
Adjustable, Stocks. Cl. 42-73.
Adjustable supply, Feeding devices, hoppers and troughs. Cl. 119-53.
Adjustable supporting-post, Folding and adjustable backs. Cl. 155-157.
Adjustable, Switches, tie-bars. Cl. 246-450+.
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Adjustable, Tension devices, tortuous course Cl. 242-154.
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Adjustable-tongue connectors, Wheeled, articulated, vehicle-train, offset coupling Cl. 280-33.8.
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Adjustable wheel, Water-motors, rotary, transverse axis. Cl. 170-117.
Adjustable wheel, Water-motors, rotary, transverse axis, horizontal. Cl. 170-107.
Adjustable wheel, Wind-motors, rotary, parallel axis. Cl. 170-58.
Adjustable wheel, Wind-motors, rotary, transverse axis. Cl. 170-19.
Adjustable, Wheeled, two-wheel, spring Cl. 280-77.
Adjustable, Wheeled, two-wheel, spring, thill and axle connected. Cl. 280-74.
Adjustable, Wheeled, two-wheel, spring, thill and axle connected, body axle-mounted. Cl. 280-73.
Adjustable, Wheeled, two-wheel, spring, thill and axle connected, body thill-mounted. Cl. 280-71.
Adjustable, Wheeled, two-wheel, spring, thill and body connected. Cl. 280-76.
Adjustable, Wheels, traction, movable spurs. Cl. 21-209+.
Adjustable whirler member, Nozzles, fluid-rotation controllers, whirlers. Cl. 299-119.
Adjustable, Wind-motors, rotary, transverse axis, feathering-blades, parallel axes. Cl. 170-26.
Adjustable, Wind-motors, rotary, transverse axis, feathering-blades, parallel axes, positively operated. Cl. 170-25.
Adjustable, Wind-motors, rotary, transverse axis, feathering-blades, radial axes. Cl. 170-30.
Adjustable, Wind-motors, rotary, transverse axis, feathering-blades, radial axes, positively operated. Cl. 170-29.
Adjustable, Wind-motors, rotary, transverse axis, guide or deflector, angular vanes. Cl. 170-17.
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Air displacement, With fluent materials, general types, filling, successive receptacles, positioning-conveyer, rotary, feed-controlling movement. Cl. 226-98.
Air displacement, With fluent materials, special types, funnels. Cl. 226-33+.
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Automatic, Milling, pattern-controlled, reproducing, duplicating. Cl. 90-13.5.
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Automatic, Milling, pattern-controlled, reproducing, rotary work. Cl. 90-13.7.
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Automatic, Pen and pencil cases, compound. Cl. 120-11.
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Automatic shift, Special distributing-valve actuation, transmission-actuated, engine-shaft-actuated gear, with shifting eccentric sheave. Cl. 121-174+.
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Automatic shock-delivery trip, Shockers, automatic feed, self-binding, forwardly-tilting shock. Cl. 56-409.
Automatic shock-delivery trip, Shockers, automatic feed, self-binding, vertical position. Cl. 56-405+.
Automatic shock-delivery trip, Shockers, automatic feed, sheaf turned end for end. Cl. 56-418.
Automatic shock-delivery trip, Shockers, automatic feed, vertical position. Cl. 56-414+.
Automatic shock-delivery trip, Shockers, automatic feed, vertical position, rotary, vertical axis. Cl. 56-412+.
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Automatic step-feed, Mortising, auger-cutter. Cl. 144-71.
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Automatic stop, Linear, self-propelled, electric. C. 212-132.
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Automatic switch, Arc, starting and feeding, gear-detent. Cl. 176-96.
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Automatically-slidable poise, Scales, beam. Cl. 265-56.
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Body-feeding, Can-making machines, head feeding and applying. Cl. 113–26+.
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Body suspension and springs. Cl. 105–453.
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Bolted flange, Pipe and plate, secant, water-closet type. Cl. 285–34.
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Book-supported, Hand and arm rests. Cl. 120-55.
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Boot trees and lasts, Molding devices, molds, cores. Cl. 18-46.
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Booths: *See* Voting. Cl. 20.
Boots: *See* Horse. Cl. 54.
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Boots, Bodies. Cl. 296-76.
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Boring-heads, Appliances. Cl. 77-58.
Boring-machines. Cl. 77-1+.
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Boring, Special machines, embroidering, horizontal needle, pattern-controlled. Cl. 112-85.
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Bosoms, Body-garments, shirts. Cl. 2-89.
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Both ends movable, Gravity systems, tilting track. Cl. 186-5+.
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Bottle, Boxes, cells. Cl. 217-19+.
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Bottle, Checks, labels, and tags. Cl. 40-4.
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Bottle holding: *See* Test-tube and. Cl. 233.
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Bottle neck and body, Machines, multiple labeling. Cl. 216-13.
Bottle, Refrigerators, ice. Cl. 62-34+.
Bottle, Refrigerators, ice, receptacle. Cl. 62-76+.
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Bottle-valves. Cl. 215-60+.
Bottle, Wrappers. Cl. 229-89+.
Bottles. Cl. 215-70+.
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Bottom discharge, Filters, centrifugal, discharging residue. Cl. 210-35.
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Bottom ejectors, Pottery-machines, presses. Cl. 25-28.
Bottom engaging: *See* Rim and. Cl. 294.
Bottom-engaging, Plate and receptacle lifters, Cl. 294-32.
Bottom feed, Agitators and conveyers, horizontal rotary cylinder, external exchange, scraper. Cl. 257-98.
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Bottom feed, Feeding, separators, endless belt. Cl. 271-35.
Bottom feed, Feeding, separators, pneumatic. Cl. 271-32.
Bottom feed, Feeding, separators, pneumatic, rotary. Cl. 271-24.
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Bottom feed, Feeding, separators, rotary. Cl. 271-41.
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Centrifugal governor, Wind-motors, rotary, parallel axis, adjustable blades, transversely pivoted. Cl. 170-74.
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Combined adjusting and exhaust-regulating, Igniters, sparkers. Cl. 123–150.
Combined air-brake, Couplings. Cl. 213–40.
Combined aprons, Bodies, storm-front shields, aprons, and robes, top-supported windowed panels. Cl. 296–80.
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Combined base and hot closet, Stoves, cooking. Cl. 126–55.
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Combined bucket and lantern, Heaters, lunch, liquid or gaseous fuel, dinner-bucket. Cl. 126–267.
Combined buckles and snap-hooks, Buckles, harness. 24–165.
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Combined can and heater, Heaters, lunch. Cl. 126–262+.
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Combined central and annular outlets, Nozzles, multiple outlet, valved. Cl. 299–145+.
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Combined closure and valve, Lubricators, gravity-feed. Cl. 184–80.
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Combined cylinder and reservoir, Medicators, syringes, pump, piston. Cl. 128–235.
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Combined elevating and rotary, War-ships, turret. Cl. 114–6.
Combined extension and roof, Buildings, bins, silos. Cl. 20–1.41.
Combined faucet and fountain, Fountains, drinking. Cl. 299–9+.
Combined feeding and holding clutch, Arc, starting and feeding, positive feed-clutch. Cl. 176–79.
Combined felly-joint, Wheels, fellies, spoke connections. Cl. 21–177.
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Combined fluid-pressure and electric, Block-signal systems, automatic. Cl. 246–63+.
Combined folders, Folding and wrapping. Cl. 270–24.
Combined freight, Special car-bodies, freight, tank. Cl. 105–359.
Combined functions. Cl. 116–2+.
Combined gas and coal. Cl. 158–12.
Combined gas and vapor. Cl. 67–2.
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Combined grinding and digesting, Stock treatment. Cl. 92–6.
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Combined guard and holder, Light-supports. Cl. 240–54.
Combined handle-bar and post adjustment. Cl. 280–130.
Combined harpoon and fork, Hay-fork type. Cl. 294–125.
Combined heater and apartment controlled. Cl. 236–9.
Combined heater and lantern, Foot-warmers, liquid or gaseous fuel. Cl. 126–209.
Combined heater and solder-pot, Tool-heaters, soldering-iron, liquid fuel. Cl. 126–240.
Combined, Heaters, liquid or gaseous fuel, attachments, gas-jet. Cl. 126–254.
Combined heating and cooling, Automatic control. Cl. 257–3+.
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Combined inlet and outlet, Multiple. Cl. 285–3.
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Combined interior and exterior, Combined light and structure, vehicle. Cl. 240–8.
Combined knob and bell, Combined functions, burglar-alarms, locks, doorknob-controlled. Cl. 116–10.
Combined latch and operator, Stove doors and windows, latches. Cl. 126–197.
Combined lifting and swinging, Lanterns, tubular, globe-operators. Cl. 240–31.
Combined light and structure. Cl. 240–2+.
Combined light protectors and modifiers. Cl. 240–92.
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Combined lighting and heating, Tool-heaters, liquid or gaseous fuel, gas-burner attachments. Cl. 126–232.
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Double-acting, Vehicle-energy actuation, switches, automatic, track mechanism, transverse motion, swinging. Cl. 246–347+.
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Double-acting, Water-motors, endless chain. Cl. 170–88.
Double and split keys, Rail-joints, splice-bars, fasteners. Cl. 238–261.
Double base and tubular, Incandescent. Cl. 176–29.
Double, Bells, gong type, pivoted striker, multiple stroke. Cl. 116–163.
Double, Bridles, bits, mouthpieces. Cl. 54–9.
Double bucket, Gas-operated, rotary, end supply, single shaft. Cl. 253–75.
Double bucket, Rotary, peripheral supply, opposed delivery, jet. Cl. 253–115.
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Double clench, Rivets. Cl. 85–39.
Double, Closures and chutes, letter-box, pivoted trap. Cl. 232–48.
Double cut-off, With fluent materials, general types, filling, predetermined bulk, stationary measure. Cl. 226–108.
Double cut, Implements, reciprocating cutter. Cl. 262–32.
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Double cylinder, Meat-cutters. Cl. 17–21.
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Double dog, Arc, starting and feeding, clutches. Cl. 176–106.
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Double gear, Watches, stem winding and setting, pendant-set, yoke. Cl. 58–39+.
Double grip, Saw-handles. Cl. 145–109.
Double grip, Sole and heel edge trimmers, hand-tools. Cl. 12–115.
Double inner rail, Suspended. Cl. 104–94.
Double lap, Chains, links, detachable. Cl. 59–87+.
Double lever, Interlocking, manual actuation, switch-stands, signal-actuating. Cl. 246–145.
Double, Linear, cable, load suspension, rope-catch, pivoted. Cl. 212–109.
Double, Linear, cable, load suspension, sheave-frame catch, pivoted. Cl. 212–105.
Double-loop cam, Valve-operating mechanism, four-cycle. Cl. 123–93.
Double loop, Wheel or axle drive, belt-gear, to rotor. Cl. 105–103.
Double molding-cutter, Barrel-head making, rotary chuck. Cl. 147–40.
Double movement, Windows. Cl. 189–66+.
Double opposed pawls, Block-signal systems, automatic, electric, counting in and out, ratchet-wheel. Cl. 246–79+.
Double outer rail, Suspended. Cl. 104–95.
Double outlet, Fire-tube, horizontal, central fire-box. Cl. 122–54.
Double passage, Lubricators, force-feed, fluid-operated, condensation displacement. Cl. 184–50.
Double pile fabrics: *See* Cutting. Cl. 139.
Double-pointed needle, Stitch-forming, short thread. Cl. 112–171.
Double-punch drive, Nut and washer making, forging. Cl. 10–78.
Double-rack cutter-drive, Planing, soft metal. Cl. 90–27.
Double rail, Block-signal systems, automatic, electric, varying-current track-circuit, propulsion-current return. Cl. 246–36+.
Double rail, Switch-connected frogs, overlapped main. Cl. 246–384.
Double rail, Switches, stub. Cl. 246–446.
Double reel and web, Calendars. Cl. 40–117.
Double reel and web, Changeable exhibitors. Cl. 40–86+.
Double reel and web, Changeable exhibitors, axle-operated. Cl. 40–42.
Double reel and web, Changeable exhibitors, fluid-operated. Cl. 40–38.
Double reel and web, Changeable exhibitors, motor-operated. Cl. 40–31.
Double reel and web, Changeable exhibitors, obstacle-operated. Cl. 40–46+.
Double-rope system, Traction, cables, curves. Cl. 104–192.
Double rotor, Locomotives, electric. Cl. 105–52.
Double semaphore, Train-despatching, station, block, or train-order signals. Cl. 246–18.
Double shift, Case-shifts. Cl. 197–72.
Double sickle, Cutting, cutter members, reciprocating. Cl. 56–297.
Double sickle, Cutting, reciprocating central cutter, coaxial wheels. Cl. 56–259.
Double sickle, Cutting, reciprocating side cutter, front cut, coaxial wheels. Cl. 56–275.
Double snail, Clocks, trains, striking, repeating. Cl. 58–11.
Double snail, Watches, repeaters. Cl. 58–61+.
Double snap, Snap, oscillating contact. Cl. 200–67+.
Double surfacers, Planers, rotary cutter, cylinder. Cl. 144–116.
Double tackle, Linear, cable, load-handling, draft-rope, dumping. Cl. 212–80.
Double tap-grip, Screw-threading, tapping, machines. Cl. 10–133.
Double-tape movement, Receivers, code-recorders. Cl. 178–97.
Double, Trucks, bolsters. Cl. 105–227.
Double, Vehicle-energy actuation, switches, automatic, track mechanism, longitudinal motion, horizontal swing. Cl. 246–343.
Double, Vehicle-energy actuation, switches, automatic, track mechanism, longitudinal motion, perpendicular swing. Cl. 246–340.
Double, Vehicle-energy actuation, switches, automatic, track mechanism, transverse motion, swinging. Cl. 246–349.
Double, Vehicle-energy actuation, switches, automatic, track mechanism, vertical motion. Cl. 246–356+.
Double, Vehicle-energy actuation, switches, automatic, track mechanism, vertical motion, swinging. Cl. 246–355.
Double-walled, End structures. Cl. 220–68.
Double-walled, Molds, metal, ingots and pigs. Cl. 22–144.
Double water fire-box, Fire-tube, horizontal. Cl. 122–57.
Double wedge, Bolts, expanding sleeve. Cl. 85–2.8.
Double, Well-casing, packers. Cl. 166–11.
Double wing, Liquid fuel burners, extinguishers, mechanical. Cl. 67–79.
Double, Y-coupling. Cl. 285–19.
Double Y, Rotary-shaft couplings, flexible or tumbling connections. Cl. 64–102.
Doublers and worms, Distilled spirits, apparatus, stills. Cl. 195–14.
Doubling. Cl. 28–34+.
Doubling. Cl. 117–4.
Doubling-machines, Bobbin and cop winding. Cl. 242–42.
Doubling-machines, Bobbin and cop winding, detectors and stops, load. Cl. 242–40.
Doubling-machines, Bobbin and cop winding, detectors and stops, thread break or exhaust. Cl. 242–38.
Douches, Medicators. Cl. 128–248+.
Dough-feeding, Cutting apparatus, reciprocating die. Cl. 107–25.
Dough-raisers. Cl. 126–281+.
Dough, Special types, material. Cl. 249–5.
Dovetailed, Calks, removable. Cl. 168–35.
Dovetailing. Cl. 144–85+.
Doweled. Cl. 287–127.
Down and up gas-flow, Heating-drum type, air-conduit, vertical drum. Cl. 257–168.
Down run, Processes, water. Cl. 48–207.
Down-supports, Tops, let-down type. Cl. 296–124+.
Downdraft, Fire-tube, horizontal, water fire-box, water-grate. Cl. 122–97.
Downdraft, Fire-tube, vertical, water-grate. Cl. 122–129.
Downdraft, Furnace structure. Cl. 110–84.
Downdraft, Horizontal cylinder, water-tube, water-grate. Cl. 122–203.
Downdraft, Hot-air furnaces. Cl. 126–103.
Downdraft, Kilns. Cl. 25–145+.
Downdraft, Stoves, heating. Cl. 126–76.
Downdraft, Water-tube, over bridge-wall, water-grate. Cl. 122–296.
Downdraft, Water-tube, water-grate. Cl. 122–354.
Downflow-inlet, Deflection. Cl. 183–105+.
Downflow-inlet, Deflection, vortical whirl, vertical. Cl. 183–92.
Downflow-outlet, Deflection, downflow-inlet. Cl. 183–107.
Downflow, Water-tube. Cl. 122–258.
Downward and rearward, Breech-loading, swinging breech-block. Cl. 42–28+.
Downwardly swinging, Bodies, end-gates. Cl. 296–57+.
Draft: *See* Animal. Cl. 105.
Draft: *See* Central. Cl. 67.
Draft: *See* Direct. Cl. 56.
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Draft: *See* Side. Cl. 212.
Draft: *See* Side. Cl. 246.
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Draft appliances: *See* Railway. Cl. 213.
Draft attachment: *See* With, Cl. 280.
Draft, base-heating: *See* Revertible. Cl. 126.
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Draft, Dampers, stove. Cl. 126-290.
Draft devices, Horse-power type. Cl. 185-23.
Draft-jumpers, Horse-rakes, rear delivery, wheel-supported. Cl. 56-386+.
Draft-dumping rake, Combined rakes and tedders. Cl. 56-368.
Draft-equalizers. Cl. 21-76.
Draft, Gaseous-fuel burners, automatic cut-offs. Cl. 67-114.
Draft guards: *See* Dust and, Cl. 98.
Draft-link, Plows, wheel, lifts, power-operated. Cl. 97-56.
Draft-operated. Cl. 236-45.
Draft-operated, Horse-rakes, wheel-supported, with lifting means. Cl. 56-398.
Draft-operated, Implement-frames, tool-adjusters, elevating and depressing. Cl. 97-99.
Draft-operated, Sawmill-carriages, offsetting. Cl. 143-110.
Draft-regulator, Compartment, auxiliary. Cl. 122-38.
Draft-regulator, Spark-arresters, smoke-box. Cl. 110-123.
Draft-regulators. Cl. 110-147+.
Draft-rope, hoist-rope traverse, Linear cable. Cl. 212-87+.
Draft-rope, Independent traverse, Linear cable. Cl. 212-94+.
Draft-rope, Linear, cable, load-handling. Cl. 212-78+.
Draft-sill framing, Car framing and structure. Cl. 105-420.
Draft-tube, Beer apparatus, barrel-taps. Cl. 225-3.
Draft-wheel: *See* Vane and, Cl. 98.
Draft-wheel, Chimney-cowls, ejector. Cl. 98-2.
Drag: *See* Brake and, Cl. 242.
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Drag, Continuous, regulation. Cl. 118-34.
Drag line: *See* Vertically-swinging load-support and hoist or, Cl. 214.
Drag-line scoop: *See* Endless or rotary carrier and, Cl. 214.
Drag, Reciprocating-saw machines. Cl. 143-61+.
Drag, Runner. Cl. 280-19.
Drag, Saw-guides. Cl. 143-163.
Drag, Spinning-couples. Cl. 118-55.
Drags and floats, Oil-distributers. Cl. 114-234.
Drags and weights, Restraining devices. Cl. 119-107.
Drags or sea-anchors, Anchors. Cl. 114-209.
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Drain devices: *See* Cut-off and, Cl. 103.
Drain, Rotary ping. Cl. 251-94.
Drainage, Instruments, cannula. Cl. 128-350.
Drainage-vent, Dependent-motion type, serial, stop and non-stop, reciprocating, concentric. Cl. 277-30.
Drainage, Water control, channels. Cl. 61-10+.
Drained: *See* Suction. Cl. 251.
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Drainers: *See* Dish cleaners and, Cl. 141.
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Drains. Cl. 94-33.
Drains and resistants: *See* Solution. Cl. 95.
Draw. Cl. 14-31+.
Draw cut: *See* Trailing and, Cl. 55.
Draw cut, Cutting, machines, reciprocating cutter. Cl. 164-53+.
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Draw, Floating. Cl. 14-29+.
Draw-plates: *See* Pattern-lifters and, Cl. 22.
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Drawbar-actuated, Automatic. Cl. 188-17+.
Drawbar-actuated, Buffers. Cl. 213-60.
Drawbar and hook: *See* Combined. Cl. 213.
Drawbar, Liquid fuel, burners, wick type, Argand, central draft. Cl. 67-59.
Drawbars. Cl. 213-42+.
Drawbars and couplings. Cl. 29.
Drawbars and couplings, Forging, dies, railway-car irons. Cl. 78-75.
Drawbars inclosed, Elastic extension devices, compression-spring, single. Cl. 267-72.
Drawbridge and transfer-table. Cl. 191-9.
Drawbridge protection. Cl. 246-118+.
Drawer-operated, Cash-registers, key-set. Cl. 235-10.
Drawer-operated, Refrigerators, ice, valved. Cl. 62-66.
Drawer-operating mechanism, Cash-registers Cl. 235-22.
Drawer-pull: *See* Doorknob and, Cl. 40.
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Drawers-supports, Waist-line body-garment, shoulder suspension, tabs. Cl. 241-28.
Drawhead: *See* Laterally movable. Cl. 205.
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Drawing: *See* Metal. Cl. 205.
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Drawing-boards. Cl. 45-131.
Drawing core, Mold-separating devices. Cl. 22-93.
Drawing core, Mold-separating devices. Cl. 49-43.
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Drawing-drums, Wire. Cl. 205-20.
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Drawing-pens. Cl. 120-109.5.
Drawing, Processes. Cl. 49-63.1.
Drawing-shaves. Cl. 145-49.
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Dressing. Cl. 125-2+.
Dressing: *See* Grinding-wheel. Cl. 125.
Dressing: *See* Millstone. Cl. 125.
Dressing and assorting machines. Cl. 15-45.
Dressing and jointing, Saw-making. Cl. 76-47+.
Dressing, casing, and flavoring. Cl. 131-55.
Dressing, jointing, and gaging, Saw-making. Cl. 76-46.
Dressing-machines: *See* Fish. Cl. 17.
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Driers: *See* Clothes. Cl. 68.
Driers: *See* Line. Cl. 242.
Driers and coolers. Cl. 91-55.
Driers, Box-machines, folding. Cl. 93-50.
Driers, Box-machines, folding, web-supply. Cl. 93-46.
Driers, Paint. Cl. 134-57.
Driftage control. Cl. 104-278.
Drifting tub, Amusement. Cl. 104-59.
Drifting on auxiliary fluid, Fluid distribution. Cl. 121-137.
Drill-braces, Appliances. Cl. 77-59.
Drill, etc.: *See* Vise. Cl. 29.
Drill forming and sharpening, Machines. Cl. 76-5.
Drill-holders, Appliances. Cl. 77-60.
Drill-press, Combined machines, type of machine. Cl. 29-26.
Drill-holding: *See* Fluid-conduit. Cl. 279.
Drill, Implements, rotary tool. Cl. 262-22.
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Drill swivels and sockets, Rigs. Cl. 255-26.
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Drill type, Socket type, friction-grip. Cl. 279-103.
Drilling. Cl. 111-14+.
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Drilling: *See* Surfacing and, Cl. 79.
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Drilling and tapping: *See* Clamped. Cl. 77.
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Drilling-machines: *See* Rock. Cl. 255.
Drilling-machines, Liquid or gas. Cl. 111-7.
Drilling-machines, Plant-setting. Cl. 111-3.
Drilling, Pearl and composition. Cl. 79-11+.
Drills. Cl. 77-67+.
Drills: *See* Bits and, Cl. 206.
Drills: *See* Center. Cl. 77.
Drills: *See* Rail. Cl. 77.
Drills and countersinks, Drills, combined. Cl. 77-66.
Drills, bits, and augers. Cl. 255-61+.
Drills, Blanks and processes. Cl. 76-108.
Drills, combination: *See* Ratchet. Cl. 77.
Drills, combined. Cl. 77-65+.
Drills, Dies. Cl. 76-95.
Drink-mixers. Cl. 31-63.
Drinking, Fountains. Cl. 299-8+.
Drinking-tubes: *See* Portable. Cl. 299.
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Drip-catchers, Hand-oilers. Cl. 221-36+.
Drip-catchers, Liquid fuel, fonts. Cl. 67-84.
Drip-cooled, Buildings, ice, top ice-box. Cl. 62-28.
Drip-cooled, Cars, ice, end ice-box. Cl. 62-20.
Drip-cooled, Refrigerators, ice. Cl. 62-70.
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Drip-cooled, Refrigerators, ice, top ice-box. Cl. 62-53+.
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Drip pan or receptacle, Stoves, cooking, liquid or gaseous fuel, liquid. Cl. 126-51.
Drip-pans, Bodies. Cl. 296-38.
Drip-pans, Lubricators. Cl. 184-106.
Drip-plate in boiler, Feed-heaters. Cl. 122-417.
Drip-plate, Water-heaters, liquid or gaseous fuel. Cl. 126-355.
Drip, Slow diffusers. Cl. 299-22.
Drip-tank, Refrigerators, ice, central ice-box. Cl. 62-60.
Drip-tank, Refrigerators, ice, liquid-cooler, filter. Cl. 62-40.
Drip-tank, Refrigerators, ice, top ice-box, drip-cooled. Cl. 62-55+.
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Drive and control, Traction, cables. Cl. 104-178+.
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Drive-points and strainers, Well-casing. Cl. 166-5+.
Drive, Screws. Cl. 85-44.
Drive-stops on car, Traction, cables, grippers. Cl. 104-238.
Drive-wheel turners, Locomotives. Cl. 105-85.
Drive-wheel, Turntables, actuators, vehicle-operated. Cl. 104-41.
Drive-wheels. *See* Epicyclic. Cl. 105.
Driven catch devices, Car brakes and catches. Cl. 187-77+.
Driven, Cutting, track clearers and dividers. Cl. 56-317.
Driven, headed, and screw-threaded fastenings. Cl. 85.
Driven marker, Drilling, hill-planting machines, depositing and marking mechanisms. Cl. 111-29+.
Driven-steering-wheel type. Cl. 180-42+.
Driven-steering-wheel type, Special wheel-base, five or more wheels. Cl. 180-23+.
Driven-steering-wheel type, Special wheel-base, three-wheeled. Cl. 180-26.
Driven-steering-wheel type, Special wheel-base, two-wheeled, tandem. Cl. 180-31.
Driven-steering-wheel type, Steam traction-engines. Cl. 180-37+.
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Driver pick-up, Locomotives. Cl. 105-33.
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Driving, Continuous. Cl. 118–5 +.
Driving device: *See* Special. Cl. 180.
Driving-marker, Drilling, hill-planting machines, depositing and marking mechanisms. Cl. 111–27+.
Driving means: *See* With, Cl. 56.
Driving mechanism: *See* With. Cl. 264.
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Driving mechanisms, Elements. Cl. 112–220+.
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Driving-steering-wheel type, Motor-carrying attachments. Cl. 180–12+.
Driving-stops: *See* Cable. Cl. 104.
Driving-tools, Beer apparatus, barrel-taps. Cl. 225–4+.
Drop: *See* Direct. Cl. 56.
Drop: *See* Vertical. Cl. 238.
Drop: *See* With vertical. Cl. 238.
Drop-arch, Furnace structure, feeding air and steam, fire-box. Cl. 110–65.
Drop-arch, Furnace structure, fire-box. Cl. 110–93.
Drop-arm, Switch-stands, structural types, horizontal lever. Cl. 246–413+.
Drop-bar: *See* Long. Cl. 105.
Drop, Block-presses, reciprocating mold, plunger, in line of mold travel. Cl. 25–58.
Drop, Block-presses, rotary mold, facial intermittent, single-surface plunger. Cl. 25–71.
Drop, Block-presses, stationary mold, single-surface plunger. Cl. 25–86.
Drop-bottom: *See* Gondola. Cl. 105.
Drop-car, Cable-propulsion systems, reciprocating. Cl. 186–18.
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Drop detonating, Alarms, burglar, portable. Cl. 116–78.
Drop-feed, Burners, liquid fuel, fuel-feeding, tanks. Cl. 158–52.
Drop-fender. Cl. 293–34+.
Drop, Forging, power hammers and presses. Cl. 78–25+.
Drop pick-up. Cl. 104–122.
Drop-receptacle, Carriers, wheeled. Cl. 186–29.
Drop-restorers, Switchboards. Cl. 179–92.
Drop-saw, Circular-saw machines. Cl. 143–41.
Drop, Shade, reflector, or globe supports. Cl. 240–113.
Drop storage, Special car-bodies, passenger, convertible open and closed, vertical sliding panel. Cl. 105–335.
Drop, Stove-shelves. Cl. 126–334+.
Drop, Stove-shelves, stovepipe. Cl. 126–342.
Drop-water baffle, Fire-tube, horizontal, drop water fire-box. Cl. 122–61.
Drop water-baffle, Horizontal cylinder. Cl. 122–188.
Drop water fire-box, Fire-tube, horizontal. 122–58+.
Drop water fire-box, Fire-tube, horizontal, projecting into fire-box. Cl. 122–73.
Drop water fire-box, Fire-tube, horizontal, return and reverse. Cl. 122–74.
Drop water fire-box, Fire-tube, horizontal, return fire-tube. Cl. 122–76+.
Drop water fire-box, Fire-tube, horizontal, water-wall. Cl. 122–107.
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Droppers, Hand-oilers. Cl. 221–40.
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Drum: *See* Ratchet. Cl. 188.
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Drum: *See* Spring. Cl. 242.
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Drum: *See* Vehicle-attached. Cl. 254.
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Drum: *See* Winding. Cl. 187.
Drum: *See* Winding. Cl. 188.
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Drum and cable hoist, Roadway vehicle loading or unloading, self loading or unloading vehicles, wheeled or sledded scoops, elevating. Cl. 214–72.
Drum and cam operated switch, Systems, display. Cl. 177–348.
Drum and cord, Sash-balances, spring. Cl. 16–148.
Drum article-holders: *See* Spring. Cl. 242.
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Drum, Cable, derrick-hoists. Cl. 254–145+.
Drum-carrier: *See* Rotary. Cl. 113.
Drum, Code-transmitters, rotary contact. Cl. 178–84.
Drum-controllers: *See* Multiple. Cl. 40.
Drum, Cotton, pickers, rotary or oscillating. Cl. 56–48.
Drum-drive: *See* Friction. Cl. 242.
Drum-feed, Shaving, fixed knife. Cl. 144–157.
Drum, Heaters, liquid or gaseous fuel, attachments. Cl. 126–248.
Drum, Horse-power type. Cl. 185–17.
Drum, Linear, surface. Cl. 212–142+.
Drum, Magneto-electric, armatures. Cl. 171–206.
Drum or reel actuator, Rigs, impact-tool. Cl. 255–9.
Drum, Pressure, gage. Cl. 234–20.
Drum series: *See* Planetary. Cl. 101.
Drum series and pad-inkers, Selective or progressive numbering. Cl. 101–83.
Drum series, Embossing or penetrating, matrix material, selective machines. Cl. 101–14.
Drum series, Selective or progressive, addressing-machines, bed and platen. Cl. 101–59.
Drum series, Selective or progressive, bed-and-platen machines. Cl. 101–99+.
Drum series, Selective or progressive, bed-and-platen machines, oscillating. Cl. 101–95+.
Drum series, Selective or progressive, numbering, bed-and-platen machines. Cl. 101–79+.
Drum series, Selective or progressive, numbering, measuring-machines, rotary. Cl. 101–75.
Drum series, Selective or progressive, numbering, printing members. Cl. 101–85+.
Drum series, Selective or progressive, printing members. Cl. 101–110.
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Drum, Steam-engine indicators. Cl. 234–23.
Drum, Time-stamps. Cl. 234–56+.
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Drum type, Water-tube. Cl. 122–259.
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Drum, Water-tube, cross, over fire-box, transverse, header. Cl. 122–256.
Drum, Water-tube, cross, transverse, header. Cl. 122–257.
Drum, Water-tube, headers, closures and couplings. Cl. 122–363.
Drum-wind draft, Traction, cables. Cl. 104–183.
Drum, Wire-feeding. Cl. 140–127+.
Drums. Cl. 84–10+.
Drums: *Cf.* Cylinders.
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Dry closets, Furnace structure, wet fuel, garbage and sewage. Cl. 110–9.
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Dry process, Paint, pigments, lead salts. Cl. 134–69+.
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Drying-conveyer, Furnace structure, wet fuel, garbage and sewage. Cl 110–15.
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Duet piano-stools, Special. Cl. 155–34.
Dumb-bells and clubs. Cl. 46–68.
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Dumping, Ash receiving and handling devices, ash-pans. Cl. 110–167+.
Dumping-bottoms, Coke-ovens. Cl. 202–7.
Dumping-catcher, Cutting and conveying, reciprocating-cutter type, self-raking mechanism. Cl. 56–166.
Dumping, Grates. Cl. 126–162.
Dumping, Grates, agitating. Cl. 126–158.
Dumping, Grates, rocking bar. Cl. 126–177.
Dumping, Linear, cable, load-handling, draft-rope. Cl. 212–79+.
Dumping mechanism, Vertically-swinging load-support, shovel or fork type, shovel and handle structure. Cl. 214–146.
Dumping-rake: *See* Draft. Cl. 56.
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Duplex, Escapements, balance. Cl. 58–120.
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Duplex, Systems. Cl. 178–58+.
Duplex, Vehicle, parallel depression, positive connections. Cl. 267–13+.
Duplex, Wrenches, flexible, link, handle-jaw. Cl. 81–70.
Duplicate end. Cl. 285–57+.
Duplicate end, automatic engagement, Plural conduit. Cl. 285–24.
Duplicate end, Single coupling. Cl. 284–54+.
Duplicate-whist apparatus. Cl. 46–58.
Duplicating-machines. Cl. 101–113.
Duplicating-machines, Selective or progressive. Cl. 101–90.
Duplicating, Milling, pattern-controlled, reproducing. Cl. 90–13.2+.
Duplicating, Ribbon mechanism. Cl 197–153.
Duplicating, Selective or progressive, ticket-machines. Cl. 101–67+.
Duplication. Cl. 274–3.
Dust and draft guards, Ventilation, car, natural draft. Cl 98–21.
Dust and mud guards, Wheeled, attachments. Cl. 280–152+.
Dust and sludge collectors, Rock-drilling machines, washers. Cl. 255–50.
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Dust-conveyers, Threshing-machines. Cl. 130–29.
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Dust-flue, Hot-air furnaces. Cl. 126–115.
Dust-guards. Cl. 180–84.
Dust-guards, Bar. Cl. 197–40.
Dust-guards, Special car-bodies, passenger Cl. 105–350+.

Dust-guards, Wheeled, attachments. Cl. 280–159.
Dust prevention, Pavements, processes. Cl. 94–25.
Dust-proof, Watches, cases. Cl. 58–90.
Dust-protectors, Wrenches, rigid jaws, inclosed, watch and clock keys. Cl. 81–123.
Dust-trunks. Cl. 19–18.
Dusters: *See* Bran. Cl. 83.
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Dusting and spraying, Antivermin treatment. Cl. 119–159.
Dusting-brushes, Brush heads and faces. Cl. 15–28.
Dustpans. Cl. 65–20+.
Dutch, Ovens, domestic. Cl. 126–274.
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Earth-working-element sharpeners. Cl. 97–77.
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Ebb and flow, Water-motors, rotary, parallel axis. Cl. 170–126.
Ebb and flow, Water-motors, rotary, transverse axis. Cl. 170–100+.
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Eccentric, Gearing, planetary. Cl. 74–35.
Eccentric, Impellers, paddle-wheel, feathering-blades, parallel axes, positively operated. Cl. 170–151.
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Eccentric-pin: *See* With shifting. Cl. 121.
Eccentric segmental bit, Cutters, rotary, disk. Cl. 144–234.
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Eccentric, Switches, tie-bars, adjustable. Cl. 246–451.
Eccentric type, Fabric-making, slat and wire, portable machines, strand-twisters. Cl. 140–44.
Eccentrically-walled chamber, Non-reciprocating piston, rotary, sliding vane. Cl. 121–84+.
Eccentrics: *See* Cams. Cl. 74.
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Edge and crease guides, Special machines, leather-sewing. Cl. 112–51.
Edge-curling, Curving or straightening, roll. Cl. 153–59.;
Edge-cutting, Cutter, rotary, disk, side-attached bit. Cl. 144–235.
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Edge-inking, Sole-machines. Cl. 12–31.
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Edge-pivot: *See* Knife. Cl. 178.
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Edge-reinforcing. Cl. 220–73+.
Edge-serrating, Sharpening. Cl. 29–82.
Edge, Sole-machines, blank-molding. Cl. 12–22.
Edge-stays: *See* Pivoted. Cl. 24.
Edge-strand binding, Fabric-making, all-wire. Cl. 140–24.
Edge to edge, Bodies, storm-front shields, aprons, and robes, wind-shields, connected horizontally-pivoted panels. Cl. 296–87.
Edge-tools, Metal. Cl. 51–7.
Edge-trimmers: *See* Sole and heel. Cl. 12.
Edge-winding: *See* Flat wire. Cl. 153.
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Ejector, Cleaning, blow-off, bottom, internal conduit. Cl. 122–384.
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Ejector, Spark-arresters, smoke-box. Cl. 110–127.
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Ejectors: *See* Bottom. Cl. 25.
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Ejectors and discharge-gates, Compressing and binding, cord-knotter type. Cl. 56–449.
Ejectors, Bilge discharge. Cl. 114–184+.
Ejectors, Bobbin and cop winding. Cl. 242–41.
Ejectors, bottle-stoppers. Cl. 215–100.
Ejectors, Breech-loading, upward tilting, breech. Cl. 42–47+.
Ejectors, Die-shaping. Cl. 113–50.
Ejectors, Integral line, casting mechanisms. Cl. 199–60.
Ejectors, Molds, block. Cl. 25–120.
Ejectors or followers, Roadway vehicle loading or unloading, self loading or unloading vehicles. Cl. 214–82.
Elastic: *Cf.* Cushioned.
Elastic: *Cf.* Resilient.
Elastic: *Cf.* Spring.
Elastic, Barrels, hoops. Cl. 217–92.
Elastic, Bottle-stoppers, cap. Cl. 215–11.
Elastic, Chains. Cl. 59–79.
Elastic diaphragm, Pulp-molding, compressors. Cl. 92–60.
Elastic extension devices. Cl. 267–69+.
Elastic, Fabrics. Cl. 139–70.
Elastic, Fabrics. Cl. 154–48.
Elastic gripping action, Coupled nut and bolt. Cl. 151–7.
Elastic in part, Bandaging, trusses, supports, belt wholly flexible. Cl. 128–101.
Elastic, Sole-pads. Cl. 168–28.
Elastic, Stirrups. Cl. 54–48.
Elastic, Uppers, closures. Cl. 36–51.
Elastically supported, Journal-boxes, lubricating, roller-applying. Cl. 64–34.
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Electric actuation. Cl. 246–218+.
Electric actuation, Interlocking. Cl. 246–132+.
Electric, Adjustable, vertical, clamp. Cl. 248–4.
Electric, Adjustable, vertical, counterweight. Cl. 248–6.
Electric, Adjustable, vertical, friction. Cl. 248–8.
Electric, Adjustable, vertical, spring. Cl. 247–10.
Electric, Amalgamators. Cl. 83–65.
Electric, Annunciators. Cl. 161–2+.
Electric appliances. Cl. 42–84.
Electric, Arc, starting and feeding, motor. Cl. 176–73+.
Electric automatic highway-signals, mine-doors, and gates. Cl. 246–125+.
Electric, Automatic instruments, general structure. Cl. 84–174.
Electric, Automatic instruments, general structure, mechanical, with controller. Cl. 84–176.
Electric, Automatic instruments, keyboard-players. Cl. 84–185.
Electric, Automatic instruments, percussion. Cl. 84–202+.
Electric, Automatic instruments, stringed. Cl. 84–218+.
Electric, Automatic instruments, stringed, pianos. Cl. 84–228.
Electric, Automatic instruments, stringed, pianos, mechanical, with controller. Cl. 84–231.
Electric, Blasting-cartridges. Cl. 102–7.
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Electric, Block-signal systems, automatic. Cl. 246–28+.
Electric, Block-signal systems, manual. Cl. 246–105+.
Electric, Cab signal or train control, motive-power control. Cl. 246–187.
Electric, Car-propulsion systems. Cl. 104–148+.
Electric, Cartridges, primers. Cl. 102–19.
Electric circuit, With car control. Cl. 293–4.
Electric, Clocks. Cl. 58–23+.
Electric, Clocks, trains, alarm. Cl. 58–19+.
Electric, Continuous, driving. Cl. 118–43.
Electric control. Cl. 290–7+.
Electric control, Automatic instruments, keyboard-players, mechanical. Cl. 84–188+.
Electric control, Fluid-motor actuation. Cl. 246–258+.
Electric control, Mechanical-motor actuation. Cl. 246–263.
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Electric, Control mechanism, controller-locks, door-actuated. Cl. 187–48.
Electric, Control mechanism, controller-locks, door-actuated, locked door. Cl. 187–50.
Electric, Control mechanism, door-actuated. Cl. 187–31.
Electric, Control mechanism, limit. Cl. 187–35.
Electric, Control mechanism, operator-actuated. Cl. 187–43.

Electric, Control mechanism, speed-controlled. Cl. 187-39.
Electric, Control mechanism, well obstruction. Cl. 187-41.
Electric control, Steps. Cl. 105-444.
Electric control, Turntables, actuators. Cl. 104-38.
Electric control, Vehicle-energy actuation, switches, automatic, track mechanism. Cl. 246-326.
Electric control, Vehicle-energy actuation, switches, automatic, track mechanism, latch or clutch release. Cl. 246-325.
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Electric, Fare-registers, operating devices. Cl. 235-45.
Electric, Firing devices. Cl. 89-28.
Electric, Fluid-pressure. Cl. 188-4.
Electric furnaces. Cl. 204-64.
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Electric, Grade-crossing, track protection, automatic. Cl. 246-114+.
Electric heater, Generators, retort, oil. Cl. 48-103.
Electric, Heaters. Cl. 291-20.
Electric heating and rheostats. Cl. 219.
Electric ignition, Solid fuel, flash-lights. Cl. 67-31.
Electric, Incubator type of heater. Cl. 236-3.
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Electric lamps. Cl. 176.
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Electric, Light-supports, brackets. Cl. 240-73.
Electric, Light-supports, chandeliers. Cl. 240-78.
Electric, Light-supports, stands. Cl. 240-81.
Electric, Lighting mechanism. Cl. 161-12.
Electric, Linear, self-propelled. Cl. 212-131+.
Electric, Linear, self-propelled, load-handling. Cl. 212-126+.
Electric, Lock-strikes. Cl. 70-52.
Electric locking, Interlocking, electric actuation. Cl. 246-133+.
Electric, Locks. Cl. 70-50+.
Electric, Locomotives. Cl. 105-49+.
Electric, Locomotives, traction-regulators. Cl. 105-76.
Electric meter. Cl. 234-5.5.
Electric meters, Check-operated switch. Cl. 194-11.
Electric, Motor-actuated. Cl. 203-10.
Electric motor, Kinesitherapy, appliances with applicators having specific movement, gyratory, motor-operated. Cl. 128-46.
Electric motor, Kinesitherapy, appliances with applicators having specific movement, oscillatory, motor-operated. Cl. 128-49.
Electric motor, Kinesitherapy, appliances with applicators having specific movement, reciprocatory, motor-operated. Cl. 128-52.
Electric motor, Kinesitherapy, vibrators, unbalanced weight, motor-operated. Cl. 128-36.
Electric, Motors. Cl. 236-74+.
Electric, Motors, fluid-operated, relay. Cl. 236-84.
Electric or magnetic, Cab signal or train control, track-trips. Cl. 246-202.
Electric or magnetic, Cab signal or train control, train mechanism. Cl. 246-193+.
Electric or magnetic control, Cab signal or train control, block-entrance initiated. Cl. 246-178+.
Electric or magnetic, Electric actuation, car-actuated circuit-controllers. Cl. 246-249.
Electric or magnetic, Vehicle-energy actuation, train-trips. Cl. 246-360.
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Electric, Power-actuated. Cl. 291-23.
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Electric, Power, on lower running-gear, frame. Cl. 180-60.
Electric, Projectiles, shells, fuses. Cl. 102-38.
Electric purifiers, Chop-graders. Cl. 83-49.
Electric, Roadway-defect protection. Cl. 246-121.
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Electric soles, Medical and surgical. Cl. 174-174.
Electric, Special wheel-base, two-wheeled, tandem, power. Cl. 180-34.
Electric, Speed. Cl. 234-29.5.
Electric starting-motor. Cl. 290-48.
Electric starting-motor, Electric control. Cl. 290-38.
Electric starting-motor, Electric control, traction. Cl. 290-28.
Electric starting-motor with generator. Cl. 290-47.
Electric starting-motor with generator, Electric control. Cl. 290-36+.
Electric starting-motor with generator, Electric control, traction. Cl. 290-27.
Electric, Stopping. Cl. 118-4.
Electric, Time. Cl. 234-36.5.
Electric, Time-stamps. Cl. 234-53.5.
Electric, Time, watchmen's. Cl. 234-37.5+.
Electric, Time, workmen's. Cl. 234-41.5.
Electric, Torpedo mechanism. Cl. 246-211.
Electric, Toys. Cl. 46-49.
Electric traction-motor, Electric control, traction. Cl. 290-9+.
Electric, Traveling cranes, overhead. Cl. 212-21+.
Electric, Vehicle-energy actuation, signals and gates, automatic, track mechanism, latch or clutch release. Cl. 246-300.
Electric, Volume. Cl. 234-34.5.
Electric welding, Joining wire. Cl. 140-112.
Electric-wire supports. Cl. 189-22.
Electric, With modifiers, automatic. Cl. 264-8.
Electrical. Cl. 183-7.
Electrical, Area-integrators. Cl. 33-123.
Electrical, Carriages, returns. Cl. 197-66.
Electrical, Embossing or penetrating, movable font-carrier. Cl. 197-6.3.
Electrical, Feeding, interrupters. Cl. 271-57.
Electrical-fixture machines. Cl. 25-3.
Electrical, Incubators. Cl. 119-37.
Electrical insulating. Cl. 106-12+.
Electrical locking, Interlocking, manual actuation. Cl. 246-146.
Electrical, Solid metal. Cl. 148-10.
Electrical, Speed-regulators. Cl. 123-102.
Electrical, Stopping, warp stop-motions. Cl. 139-91.
Electrical, Traps. Cl. 43-34.
Electrically actuated, Special distributing-valve actuation. Cl. 121-148.
Electrically controlled, Changeable exhibitors. Cl. 40-52+.
Electrically-controlled valve, Interlocking, fluid-pressure actuation. Cl. 246-140+.
Electrically operated. Cl. 235-92.
Electrically operated, Lubricators, gravity-feed, automatic cut-off. Cl. 184-67.
Electrically operated, Machine-brakes. Cl. 74-70.
Electrically operated, Punching, machines, punch-selector, keyboard-controlled. Cl. 164-113.
Electrically operated, Punching, machines, punch-selector, pattern-controlled. Cl. 164-115.
Electricity—circuit makers and breakers. Cl. 200.
Electricity, conductors. Cl. 173.
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Electricity, general applications. Cl. 175.
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Electrodes: *See* Rocking and yielding. Cl. 123.
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Electrodes, Manufacture and repair, apparatus. Cl. 176-5.
Electrodes, Terminals, and seals, gas and vapor. Cl. 176-126.
Electrodynamic, Teledynamic, apparatus, receivers, detectors. Cl. 250-22.
Electrolysis. Cl. 204.
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Electromagnet circuits. Cl. 175-335.
Electromagnetic. Cl. 200-87+.
Electromagnetic feed, Arc, starting and feeding. Cl. 176-99+.
Electromagnetic guns. Cl. 172-285.
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Flexible strap, Vehicle, springs and retarders, friction. Cl. 267-10.
Flexible-tip pipe, Flexible or yielding pipe, internal nipple. Cl. 285-81+.
Flexible-tip pipe, Internal nipple, Single coupling. Cl. 284-13.
Flexible top, Tables, extension. Cl. 45-114.
Flexible tube, Acetylene, generators, water-feed, holder-operated, valveless. Cl. 48-15.
Flexible tube, Filling-cans, nozzles. Cl. 221-25.
Flexible washer, Coupled nut and bolt. Cl. 151-3.
Flexible, Wind-motors, rotary, parallel axis, adjustable blades. Cl. 170-60.
Flexible, Wind-motors, rotary, transverse axis, adjustable blades or buckets. Cl. 170-32.
Flexible, Wind-motors, rotary, transverse axis, feathering-blades. Cl. 170-22.
Flexible wrapper, Machines, affixing-magazine, moving. Cl. 216-39.
Flexible, Wrenches. Cl. 81-64+.
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Float, Alarms, liquid-level. Cl. 116-110+.
Float and manual, Fluid distribution, valved, liquid-inlet, plural. Cl. 261-68.
Float, Bottle-valves. Cl. 215-64.
Float, Closed fluid-heaters, pressure-operated. Cl. 236-31.
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Float-controlled, Regulators, liquid-level, piston-operated. Cl. 103-102.
Float-controlled, Regulators, liquid-level, reciprocating rack. Cl. 103-104.
Float-controlled, Safety devices, fire-extinguishers. Cl. 122-506.
Float-controlled supply, Watering devices, fountains and troughs. Cl. 119-78+.
Float-controlled valve, With fluent materials, special types, funnels, air displacement, valved. Cl. 226-35.
Float-controlled valve, With fluent materials, special types, funnels, valved. Cl. 226-37.
Float-detecting, Shuttles. Cl. 139-45.
Float, Gages, water. Cl. 73-82.
Float-operated. Cl. 236-52.
Float-operated, Acetylene, generators, carbid-feed, pop-valve. Cl. 48-53.4.
Float-operated, Air-relief valves, radiator type, thermostatic, expanding fluid. Cl. 236-65.
Float or piston operation, Thermostatic, expanding fluid. Cl. 236-100.
Float or piston operation, Thermostats, expanding fluid. Cl. 297-6.
Float, Regulators, outlet-pressure. Cl. 50-28+.
Float, Tank. Cl. 257-213.
Float, Tide or wave. Cl. 253-8+.
Float, Tide or wave, pendulum. Cl. 253-7.
Float-valve, Traps. Cl. 137-113.
Float-valve, Traps. Cl. 236-53.
Float-valves. Cl. 137-104.
Float, Water-motors, endless chain. Cl. 170-85+.
Float, Water-motors, rotary, parallel axis. Cl. 170-127+.
Float, Water-motors, rotary, transverse axis. Cl. 170-113+.
Float, Water-motors, rotary, transverse axis, horizontal. Cl 170-103+
Float, Water-operated. Cl. 253-18.
Floated product, Agitators and conveyers, horizontal rotary cylinder, external exchange, scraper. Cl. 257-99.
Floated product, Agitators and conveyers, vertical rotary scraper. Cl. 257-113.
Floating. Cl. 14-27+.
Floating. Cl. 212-3.
Floating: *See* Self-centering or, Cl. 279.
Floating auxiliary, Drilling, frame and planting-element arrangement, main and auxiliary frame. Cl. 111-62+.
Floating batteries, Warships. Cl. 114-4.
Floating distributer, Contact devices, liquid-tank. Cl. 261-120.
Floating dry-docks, Vessel raising and docking. Cl. 114-45+.
Floating, Harrows, wheel. Cl. 55-88.
Floating, Liquid fuel, burners. Cl. 67-51.
Floating oil, Generators, hydrogen, carburetors. Cl. 48-118.
Floating, Tide or wave. Cl. 253-5.
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Floats, Fishing. Cl. 43-4.
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Flood. Cl. 39-4.
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Flow control, Radiator type. Cl. 257-159.
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Flow-operated, Rotary, end supply, automatic control. Cl. 253-144.
Flow-operated, Rotary, peripheral supply, jet, automatic control. Cl. 253-139.
Flow-retarded, Time indication, automatic. Cl. 246-109.
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Flower-holders. Cl. 47-18.
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Flue. Cl. 122-135+.
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Flue-connected, Stoves, heating, liquid or gaseous fuel, liquid. Cl. 126-94.
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Flue-ejectors. Cl. 162-4+.
Flue extension, Stoves, cooking, water-heating. Cl. 126-31.
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Flue, Fire-tube, horizontal or inclined, water fire-box. Cl. 122-50.
Flue, Fire-tube, horizontal, return fire-tube, water fire-box. Cl. 122-78.
Flue-heated, Air. Cl. 237-55.
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Fluid-actuated angularly-moving valve, Tool, percussive, fluid distribution. Cl. 121-22.
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Fluid-actuated, Non-reciprocating piston, rotary, sliding vane, eccentrically-walled chamber. Cl. 121-87.
Fluid-actuated, Non-reciprocating piston, rotary, swinging abutment. Cl. 121-81.
Fluid-actuated, Non-reciprocating piston, rotary, swinging vane. Cl. 121-96.
Fluid-actuated pilot, Special distributing-valve actuation, fluid-actuated, pilot-controlled. Cl. 121-158.
Fluid-actuated, Special distributing-valve actuation. Cl. 121-150+.
Fluid-actuated valve: *See* With, Cl. 121.
Fluid-actuated valve, Independent admission and exhaust. Cl. 121-126.
Fluid, Alarms, thermal, expansion control. Cl. 116-103.
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Fluid, Balloons, propelled. Cl. 244-10.
Fluid-brake, Cable, drum, fire-escape type. Cl. 254-160.
Fluid-brake, Cable, drum, fire-escape type, suspended. Cl. 254-158.
Fluid-breakwaters, Water control, channels, forming and preserving, jetties, groins, and breakwaters. Cl. 61-6.
Fluid, Centrifugal. Cl. 264-19.
Fluid-circuit. Cl. 286-19.
Fluid-circuit or indirect heating, Bakers' ovens. Cl. 107-63.
Fluid-circulating heads, Rigs, washers. Cl. 255-25.
Fluid column. Cl. 274-6.
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Fluid-cooler, Automatic control. Cl. 62-7.
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Fluid-delivery, Connectors, check, reciprocating and turning parts. Cl. 194-77.
Fluid-delivery, Connectors, check, reciprocating parts. Cl. 194-82.
Fluid-delivery, Connectors, check, turning parts. Cl. 194-90.
Fluid-delivery, Connectors, check, turning parts, concentric. Cl. 194-87.
Fluid-delivery, Lock-releasing, gravity, forwardly-turning released part. Cl. 194-29.
Fluid-delivery, Lock-releasing, gravity, reciprocating released part. Cl. 194-43.
Fluid-delivery, Lock-releasing, gravity, reset turning released part. Cl. 194-53.
Fluid-delivery, Lock-releasing, thrust, pivoted detent, reciprocating coin-mover. Cl. 194-60.
Fluid-delivery, Lock-releasing, thrust, pivoted detent, turning coin-mover. Cl. 194-66.
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Fluid-displacer. Cl. 122-501+.
Fluid distribution. Cl. 121-130+.
Fluid distribution. Cl. 183-33+.
Fluid distribution. Cl. 261-19+.
Fluid distribution, Liquid treatment, with deflection, preliminary. Cl. 183-31.
Fluid distribution, Liquid treatment, with deflection, subsequent. Cl. 183-27.
Fluid distribution, Liquid treatment, with deflection, subsequent, unitary structure. Cl. 183-25+.
Fluid distribution, Liquid treatment, with filtration, preliminary. Cl. 183-20.
Fluid distribution, Liquid treatment, with filtration, subsequent. Cl. 183-16.
Fluid distribution, Liquid treatment, with filtration, subsequent, unitary structure. Cl. 183-13+.
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Fluid fuel, Fire-tube. Cl. 122-45.
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Fluid fuel, Flue, vertical. Cl. 122-156.
Fluid fuel, Flue, vertical, concentric shell. Cl. 122-161.
Fluid fuel, Flue, vertical, internal water-tube. Cl. 122-167.
Fluid fuel, Flue, vertical, internal water-tube, transverse. Cl. 122-177.
Fluid fuel, Flue, vertical, internal water-tube, vertical alined fire-tube. Cl. 122-179.
Fluid fuel, Flue, vertical, spiral water-conduit. Cl. 122-182.
Fluid fuel, Fluid-displacer. Cl. 122-502.
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Fluid fuel, Furnaces, pot. Cl. 263-14.
Fluid fuel, Furnaces, pot, rotary. Cl. 263-13.
Fluid fuel, Furnaces, single chamber. Cl. 263-43.
Fluid fuel, Furnaces, single chamber, externally heated. Cl. 263-42.
Fluid fuel, Heaters, surface. Cl. 126-271.2.
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Fluid fuel, Plate, zigzag conduit. Cl. 122-208.
Fluid fuel, Regulation, fuel and water. Cl. 122-446+.
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Fluid fuel, Sectional, horizontal sections, superimposed, central connection. Cl. 122-216.
Fluid fuel, Stand-boiler. Cl. 122-14.
Fluid fuel, Stand-boiler, fire-tube. Cl. 122-17.
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Fluid fuel, Water-tube. Cl. 122-236.
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Fluid fuel, Water-tube, coil or loop, central standpipe. Cl. 122-245.
Fluid fuel, Water-tube, coil, vertical. Cl. 122-250.
Fluid fuel, Water-tube, longitudinal upper drum. Cl. 122-274.
Fluid fuel, Water-tube, loop, over fire-box, vertical. Cl. 122-283.
Fluid fuel, Water-tube, spur, central standpipe. Cl. 122-308.
Fluid fuel, Water-tube, spur, vertical. Cl. 122-319.
Fluid fuel, Water-tube, standpipe. Cl. 122-322.
Fluid fuel, Water-tube, straddle, single upper drum, plural lower drum. Cl. 122-328.
Fluid fuel, Water-tube, vertical. Cl. 122-333.
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Fluid-level controlled, Ejector. Cl. 162-3.
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Fluid-mingling, Exhaust treatment. Cl. 60-93+.
Fluid-mingling, Internal generation, combustion, exhaust treatment. Cl. 60-30.
Fluid-mixers. Cl. 236-12+.
Fluid motive power. Cl. 103-67+.
Fluid-motor, Kinesitherapy, appliances with applicators having specific movement, gyratory, motor-operated. Cl. 128-47.
Fluid-motor, Kinesitherapy, appliances with applicators having specific movement, oscillatory, motor-operated. Cl. 128-50.
Fluid-motor, Kinesitherapy, appliances with applicators having specific movement, reciprocatory, motor-operated. Cl. 128-53.
Fluid-motor, Kinesitherapy, vibrators, unbalanced weight, motor-operated. Cl. 128-37.
Fluid, Mounts, recoil-checks. Cl. 89-43.
Fluid-motor actuation. Cl. 246-257+.
Fluid-operated, Assembling, axle, pin, and collar presses. Cl. 29-86.
Fluid-operated, Block-presses, reciprocating. Cl. 25-55.
Fluid-operated, Block presses, rotary mold. Cl. 25-63.
Fluid-operated, Block-presses, stationary mold, opposed plunger. Cl. 25-91.
Fluid-operated, Block-presses, stationary mold, single-surface plunger. Cl. 25-84.
Fluid-operated, Changeable exhibitors. Cl. 40-37+.
Fluid-operated, Combined machines, turret, tool-turret. Cl. 29-42.
Fluid-operated, Cutting-machines, reciprocating cutter. Cl. 164-56.
Fluid-operated, Die-expressing, plunger-ejector. Cl. 25-16.
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Fluid-operated, Forging, power hammers and presses. Cl. 78-42.
Fluid-operated, Lubricators, force-feed. Cl. 184-49+.
Fluid-operated, Lubricators, force-feed, followers. Cl. 184-39+.
Fluid-operated, Lubricators, force-feed, pumps. Cl. 184-29.
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Fluid-operated, Motors. Cl. 236-79+.
Fluid-operated, Pipe-machines. Cl. 25-31.
Fluid-operated, Pottery-machines. Cl. 25-23.
Fluid-operated, Sawmill set-works. Cl. 143-118.
Fluid-operating mechanisms, Cameras, shutters. Cl. 95-64.
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Fluid-passage, Drills, bits, and augers, impact. Cl. 255-64.
Fluid-piston. Cl. 230.
Fluid-port. Cl. 286-27+.
Fluid-port, Rotary rod. Cl. 286-5+.
Fluid-port, Sectional. Cl. 286-21.
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Fluid-pressure actuation, Interlocking. Cl. 246-139+.
Fluid-pressure actuator: *See* With, Cl. 279.
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Fluid-pressure and liquid, Vehicle. Cl. 267-64.

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Fluid-pressure, Block-signal systems, automatic, Cl. 246-100+.
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Fluid-pressure, Car-stops, bumpers. Cl. 104-256.
Fluid-pressure contact, Printing. Cl. 95-76.
Fluid-pressure control, Valve actuation. Cl. 137-153.
Fluid-pressure, Copying. Cl. 100-63.
Fluid-pressure erector, Collectors, trolley-retrievers, erector release. Cl. 191-87.
Fluid-pressure erector, Collectors, trolley, stands. Cl. 191-67.
Fluid-pressure feed, Ambulant discharge and supply. Cl. 299-43+.
Fluid-pressure feed, Ambulant discharge and supply, adjustable discharging member. Cl. 299-40.
Fluid-pressure feed, Fountains, ornamental. Cl. 299-6.
Fluid-pressure feed, Sprayers. Cl. 299-95+.
Fluid-pressure, Grade-crossing track protection, automatic. Cl. 246-116.
Fluid-pressure, Machines, affixing-magazine, moving. Cl. 216-41.
Fluid-pressure, Molding devices, sound-record. Cl. 18-5.6.
Fluid-pressure motor, Bicycle, propulsion. Cl. 280-164.
Fluid-pressure motor, Motor-driven. Cl. 29-6.
Fluid-pressure operated, Lubricators, gravity-feed, automatic cut-off, rotatable valve. Cl. 184-72.
Fluid-pressure operated, Lubricators, gravity-feed, automatic cut-off, vertically-reciprocating valve. Cl. 184-76.
Fluid-pressure operators, Tilting, operating mechanism, vehicle-motor controlled. Cl. 298-22.
Fluid-pressure, Power. Cl. 180-66+.
Fluid-pressure, Processes, sound-record. Cl. 18-5.6.
Fluid-pressure, Reciprocating, gate, multilaced, laterally expanding. Cl. 251-65.
Fluid-pressure regulators. Cl. 50.
Fluid-pressure, Resistance. Cl. 264-14.
Fluid-pressure retracted, Collectors, trolley-retrievers. Cl. 191-90.
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Fluid-pressure, With modifiers, automatic. Cl. 284-7.
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Fluid pulsations, Milking-machines, compression. Cl. 31-95.
Fluid, Resistance elements, embedded. Cl. 219-65.
Fluid return, Lubricators, force-feed, followers, fluid-operated. Cl. 184-40.
Fluid, Rotary cranes. Cl. 212-30+.
Fluid-rotation controllers, Nozzles. Cl. 299-113+.
Fluid, Sand-delivery pipe, cleaners. Cl. 291-43.
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Fluid transmission, Arc, starting and feeding, electromagnetic feed. Cl. 176-100.
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Fluid-transmitting, Fluid motive power. Cl. 101-68.
Fluid transmission, Combined types, internal combustion and fluid-pressure. Cl. 60-19.
Fluid transmission, Combined types, internal combustion and turbine. Cl. 60-12.
Fluid transmission, Hydraulic type. Cl. 91-52+.
Fluid-transmission instruments, Strength of material. Cl. 265-14.
Fluid transmission, Pneumatic type. Cl. 91-42.
Fluid transmission, Scales. Cl. 265-47.
Fluid transmission, Thermostatic. Cl. 236-95.
Fluid transmission, Vehicle-energy actuation. Cl. 246-271+.
Fluid, Traveling cranes, overhead, stationary motor, cable-driven. Cl. 212-25.
Fluid-treating apparatus. Cl. 95-89+.
Fluid treatment, Filters, centrifugal. Cl. 210-27+.
Fluid, Wheeled, running-gear, occupant-steered, checked. Cl. 280-90.
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Fluids: *See* Separate. Cl. 60.
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Flux, Iron and steel direct. Cl. 75-74.
Flux, Reducing and separating. Cl. 75-63.
Fluxing, Solid metal, compositions. Cl. 148-23+.
Fly-affixers, Box-machines. Cl. 93-57.
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Fly-back, Electric actuation, motor systems, reciprocating armature. Cl. 246-237+.
Fly-back, Electric actuation, motor systems, rotary armature. Cl. 246-243+.
Fly-closers, Lasting-tools. Cl. 12-113.
Fly-frame, Continuous, regulation. Cl. 118-33.
Fly-nets. Cl. 54-81.
Fly-paper, Packages, plates and sheets. Cl. 206-61.
Fly, Shuttle-motions. Cl. 139-48.
Flying-machines. Cl. 244-11+.
Flying, Targets. Cl. 124-17.
Flywheel, Fan attachments. Cl. 230-9.
Flywheels. Cl. 74-6.
Foam, Beer apparatus, faucets. Cl. 225-6.
Foam-separators, Beer apparatus. Cl. 225-8+.
Foam, Soda-water apparatus, faucets. Cl. 225-24+.
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Focusing, Telescopes, field and opera glasses, supports. Cl. 88-37.
Foil-condensers. Cl. 32-3.
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Folding and collapsible, Telescopes, field and opera glasses. Cl. 88-35.
Folding and covering, Box-machines. Cl. 93-40.
Folding and extensible, Direction-indicators, levels and plumbs. Cl. 33-208.
Folding and setting up, Box-machines. Cl. 93-39.
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Folding and staying, Box-machines. Cl. 93-41.
Folding and wrapping. Cl. 270-23+.
Folding and wrapping, With printing. Cl. 270-2.
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Folding back, Bedsteads, sofa. Cl. 5-47.
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Folding bar and clamp, Bags, closures. Cl. 150-6.
Folding, bedsteads. Cl. 5-9+.
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Folding, Box-machines. Cl. 93-49+.
Folding, Boxes, compartment. Cl. 217-8+.
Folding, boxes, crates, bicycle. Cl. 217-38.
Folding, Boxes, crates, knockdown. Cl. 217-46+.
Folding, Boxes, knockdown. Cl. 217-14+.
Folding, Cameras. Cl. 95-39+.
Folding, Cameras, roll-holding. Cl. 95-32+.
Folding chairs. Cl. 155-139+.
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Folding flap, Mail-bags, closures. Cl. 150-21+.
Folding flap, Mail-bags, closures, collapsible frame. Cl. 150-19.
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Folding frame, Portemonnaies and pocket-books, closures. Cl. 150-45.
Folding, Frames. Cl. 208-105.
Folding, Handle-bars. Cl. 208-124.
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Folding on horizontal pivots, Mechanically operated. Cl. 39-50.
Folding on vertical pivots. Cl. 39-85.
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Folding, Tables, adjustable. Cl. 45-74.
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Folding, Vehicle, bicycle, bracket, Cl. 224-40.
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Folding wheel and tail-vane, Wind-motors, rotary, parallelaxis, wheel-deflection mechanism. Cl. 170–46+.
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For closures, Servo-motor type. Cl. 121–44.
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For hoists, Servo-motor type. Cl. 121–46.
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For levers, Locks. Cl. 70–128+.
For multiple controlling means, Locks. Cl. 70–126+.
For oil-tanks, Special applications. Cl. 169–4.
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For presses. Cl. 138–10+.
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Force-feed, With fluent materials, general types, filling, air displacement. Cl. 226–112.
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Forwardly-tilting shock, Shockers, automatic feed, self-binding. Cl. 56–408+.
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Fountain, Bed-and-platen machines, reciprocating bed, inker, roller. Cl. 101–321.
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Fountain, Inkers, roller and plate, traveling plate. Cl. 101-344+.
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Fountain, Inkers, roller, rotary machine. Cl. 101-350+.
Fountain, Inkstands. Cl. 120-60+.
Fountain, Machines. Cl. 91-43+.
Fountain, Multicolor, inkers, roller. Cl. 101-208.
Fountain, Multicolor, inkers, roller and plate. Cl. 101-204.
Fountain, Multicolor, inkers, roller, rotary machine. Cl. 101-207.
Fountain-pen, With fluent materials, special types, special receptacle. Cl. 226-63.
Fountain-pens. Cl. 120-42+.
Fountain, Printing members and inkers, rolling-contact printing member, roller-inker. Cl. 101-330+.
Fountain, roller, and web, Machines. Cl. 91-23.
Fountain, Special machines, confections and pills. Cl. 91-3.
Fountains. Cl. 299-2+.
Fountains and troughs, Watering devices. Cl. 119-74+.
Fountains, Inkers. Cl. 101-364+.
Fountains, Multicolor, inkers. Cl. 101-210.
Fountains, Soda-water apparatus. Cl. 225-28+.
Four-cycle. Cl. 123-75+.
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Four-cycle, Oil-engines, internal vaporizing. Cl. 123-31.
Four-cycle, Oil-engines, pump-supply to air-inlet. Cl. 123-28.
Four-cycle, Valve-operating mechanism. Cl. 123-91+.
Four-motion feed, Machines, strip, severing, reciprocating cutter. Cl. 216-24.
Four-motion looper, Stitch-forming, chain or double chain. Cl. 112-200.
Four-motion, Stitch-forming, feeding. Cl. 112-215.
Four-point barbs, Barbing, barb-wire feeding. Cl. 140-61+.
Four steering-wheels, Driven-steering-wheel type, four wheels driven. Cl. 180-50.
Four steering-wheels, Driven-steering-wheel type, stub-axle type, four wheels driven. Cl. 180-45+.
Four-way, Rotary plug, multiway. Cl. 251-366.
Four-wheel controlled, Wheeled, running-gear, short turn. Cl. 280-09+.
Four-wheel controlled, Wheeled, running-gear, occupant-steered. Cl. 280-91.
Four wheels driven, Driven-steering-wheel type. Cl. 180-49+.
Four wheels driven, Driven-steering-wheel type, stub-axle type. Cl. 180-44+.
Four wheels driven, Steam traction-engines, driven-steering-wheel type. Cl. 180-38.
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Gas, Self-heating tools, branding-irons. Cl. 158-15.
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Gas, Self-heating tools, sadirons. Cl. 158-23.1.
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Gear-guided cutter, Shaping, pattern. Cl. 144-140.
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Gear or chain: *See* Lever, ratchet, and, Cl. 208.
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Geared, Harrows, revolving. Cl. 55-85.
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Gelatinous and gummy, Paint. Cl. 134-55.
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Governor-vane, Wind-motors, rotary, parallel axis, wheel-deflection mechanism, rearwardly-mounted wheel. Cl. 170–44+.
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Grab, Linear, self-propelled, load-handling, electric, guide-bar. Cl. 212–129.
Grab, Rotary cranes, load-handling. Cl. 212–42.
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Gravity-bucket, Water-operated, rotary, center supply. Cl. 253–34+.
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Gravity-feed, Lubricators. Cl. 184–65+.
Gravity-feed, Refrigerators, ice, bottle. Cl. 62–35.
Gravity-feed, Ticket-cases. Cl. 211–38.
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Ink-block: *See* Multicolor. Cl. 101.
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Ink-repellent. Cl. 134-1.5.
Ink-repellent, Antismut devices. Cl. 101-422.
Ink, Scribers, straight line. Cl. 33-34+.
Inker: *See* Feeding or delivering with ribbon. Cl. 101.
Inker: *See* Internal. Cl. 101.
Inker: *See* Oscillating machines with roller and plate. Cl. 101.
Inker: *See* Pad. Cl. 101.
Inker: *See* Reciprocating bed with roller. Cl. 101.
Inker: *See* Ribbon. Cl. 101.
Inker: *See* Roller. Cl. 101.
Inker: *See* Roller and. Cl. 101.
Inker: *See* Roller and plate. Cl. 101.
Inker: *See* Rotary printer and web-roll with roller. Cl. 101.
Inker: *See* Stencil and pad. Cl. 101.
Inker: *See* Tumbler-bed and pad. Cl. 101.
Inker and fountain: *See* Rotary machines with roller. Cl. 101.
Inker and web-wiper: *See* Reciprocating bed with roller. Cl. 101.
Inker, Bed-and-platen machines. Cl. 101-324+.
Inker, Bed-and-platen machines, oscillating. Cl. 101-310+.
Inker, Bed-and-platen machines, oscillating, oscillating bed. Cl. 101-301+.
Inker, Bed-and-platen machines, reciprocating bed. Cl. 101-318+.
Inker-machines: *See* Stationary. Cl. 101.
Inker-machines: *See* Traveling. Cl. 101.
Inker with fountain: *See* Traveling roller. Cl. 101.
Inker with web-wiper: *See* Roller. Cl. 101
Inker with wiper: *See* Roller. Cl. 101.
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Inkers: *See* Ribbon. Cl. 197.
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Inking, Pads. Cl. 91-54.5.
Inking-roller type. Cl. 106-5.5.
Inkstands. Cl. 120-57+.
Inkstands and calendars, Combination devices. Cl. 120-3.
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Inorganic, Solid metal, compositions, fluxing. Cl. 148-26.
Inscription-covers, Changeable exhibitors. Cl. 40-61+.
Inseam-trimming machines. Cl. 12-82+.
Insect-destroyers. Cl. 43.
Insect-guards. Cl. 45-15.
Insect-proof, Receptacles. Cl. 206-10.
Insect, Traps. Cl 43-22+.
Insecticidal: *See* Antifouling and, Cl. 134.
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Insert: *See* Rail-head. Cl. 238.
Insert: *See* T-base. Cl. 238.
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Insert, core, or chill supporting, Patterns. Cl. 22-160.
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Inserted bat-holder, With fluent materials, special types, special receptacles, mattress. Cl. 226-44.
Inserted blade, Cutters. Cl. 29-96+.
Inserted cutters, Sole and heel edge trimmers, rotary cutter-heads. Cl. 12-94+.
Inserted form, guide, or support, With articles. Cl. 226-18.
Inserted section, Molded joint, pipe and socket. Cl. 285-116.
Inserted strainer-plug, Well-casing, drive-points and strainers. Cl. 166-6.
Inserted threaded section, Multiple. Cl. 285-13.
Inserted tooth, Cutter, rotary. Cl. 29-105.
Inserted, Wrenches. Cl. 81-71+.
Inserter, Rotary-shaft couplings. Cl. 64-107.
Inserters: *See* Division-blocks and block. Cl. 100.
Inserters: *See* Ring, tag, hair, etc. Cl. 128.
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Inserters, Instruments, suturation or wound-closing devices, coaptators, needles. Cl. 128-340.
Inserters, Instruments, suturation or wound-closing devices, coaptators, serrefines. Cl. 128-338.
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Insetting, Associating. Cl. 270-57.
Insetting, Associating, signature-gatherers. Cl. 270-55.
Inside delivery, Cutting, conveying, and binding, low down. Cl. 56-146+.
Inside drive-boxes, Locomotives. Cl. 105-79+.
Inside fastener, Letter-boxes, house. Cl. 232-23.
Inside slippers. Cl. 36-10.
Insole-reinforcing, Sole-machines. Cl. 12-20.
Insoles. Cl. 36-43+.
Inspection, Savings-boxes. Cl. 232-5.
Instep-block fasteners, Lasts. Cl. 12-137+.
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Instrument-attaching devices, Tripods. Cl. 248-46.
Instrument-tables. Cl. 178-114.
Instrument-transformers, Stationary induction apparatus. Cl. 175-358.
Instruments. Cl. 73-151+.
Instruments. Cl. 128-303+.
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Instruments: *See* Musical. Cl. 206.
Instruments: *See* Testing. Cl. 58.
Instruments: *See* Tools and, Cl. 219.
Instruments: *See* Tuning. Cl. 84.
Instruments in series, Train-despatching, train telegraphy or telephony, continuous contacts. Cl. 246-12.
Insubmergible vessels, Building. Cl. 114-68+.
Insufflators, Medicators, depositors and applicators, powder-depositors. Cl. 128-266.
Insulated. Cl. 285-14+.
Insulated. Cl. 287-10.
Insulated: *See* Heat. Cl. 53.
Insulated, Conductors. Cl. 173-264+.
Insulated, Conductors, joints. Cl. 173-266.
Insulated, Handles. Cl. 16-169+.
Insulated nails, Insulators. Cl. 173-319.
Insulated outlet-flue, Flue, vertical. Cl. 122-164.
Insulated parts, Poles and posts. Cl. 189-27.
Insulated rail-joint: *See* Bridged. Cl. 246.
Insulated, Rail-joints. Cl. 238-152+.
Insulating: *See* Electrical. Cl. 106.
Insulating: *See* Heat. Cl. 106.
Insulating: *See* Taping and, Cl. 242.
Insulating-covering making: *See* Heat. Cl. 154.
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Insulating fabrics, Insulators. Cl. 173-330.
Insulation: See Compressed. Cl. 173.
Insulation, Locomotives, electric. Cl. 105-60.
Insulation, Ties. Cl. 238-107+.
Insulator: *See* Divided. Cl. 173.
Insulators. Cl. 84-15.
Insulators. Cl. 173-28+.
Insulators: *See* Combined ears and, Cl. 191.
Insulators: *See* Section. Cl. 191.
Insurance. Cl. 283-54.
Intaglio. Cl. 101-150+.
Intaglio: *See* Relief and, Cl. 41.
Intaglio: *See* Relief or, Cl. 95.
Intake: *See* Gravity. Cl. 299.
Intakes, Water control, channels. Cl. 61-17.
Integral. Cl. 7-17.
Integral barb, Barbed, strands, single. Cl. 256-8.
Integral, Body-reinforcing. Cl. 220-72.
Integral bolt, Transverse port. Cl. 285-104.
Integral, Buttons and fasteners, deflecting prong or rivet. Cl. 24-96.
Integral cast, Wheels. Cl. 295-27+.
Integral, Closures, fastening devices. Cl. 220-59+.
Integral cover, Folded blank boxes, buckets, closures. Cl. 229-26.
Integral, Die-expressing, plunger and mandrel. Cl. 207-6+.
Integral door, Closures and chutes, letter-box, pivoted trap, pocket. Cl. 232-51.
Integral, Edge-reinforcing. Cl. 220-74.
Integral, End structures, supports. Cl. 220-70.
Integral, Fastenings, rail-anchors, tie-contact, diagonal. Cl. 238-330.
Integral fin, Radiator type. Cl. 257-150.

Integral flange, Bolted flange. Cl. 285-139+.
Integral frame and teeth, Wrenches, sliding adjustments, rack, spring-seated jaw-frame. Cl. 81-147.
Integral front legs and back, Folding chairs. Cl. 155-142+.
Integral, Grilles. Cl. 189-63.
Integral grooved base, Rails, detachable head. Cl. 238-146.
Integral hook, Duplicate end, longitudinal part. Cl. 285-67+.
Integral hook, Duplicate end, transverse port. Cl. 285-62+.
Integral line. Cl. 199-1+.
Integral lugs, Wheels, tire-fasteners. Cl. 295-13.
Integral metallic, Slotted conduit, yokes. Cl. 104-144.
Integral or rigid stud, Buttons and fasteners. Cl. 24-101.
Integral, Pens, reservoir attachments, nib-attached. Cl. 120-115.
Integral, Rail-joints, chair. Cl. 238-205+.
Integral, Rails, channel. Cl. 238-128.
Integral, Rails, tubular. Cl. 238-135.
Integral rear legs and back, Folding chairs. Cl. 155-141.
Integral, Screw-threading, implements, dies. Cl. 10-118+.
Integral sections. Cl. 247-9.
Integral shank, Hoes, blades. Cl. 55-99.
Integral shear members, Reinforcing elements, bars. Cl. 72-113.
Integral socket, Hoes, blades. Cl. 55-100.
Integral strip, Closures, opening devices, ripping. Cl. 220-54.
Integral tang, Rod to base, plate or head, handle to transverse tool-heads. Cl. 287-64.
Integral, Tie-plates, anchors. Cl. 238-298.
Integral, Tie-plates, rail-brace. Cl. 238-293.
Integral, Ties, cross-section, tubular, rectangular. Cl. 238-78+.
Integral, Ties, forms, truss. Cl. 238-41.
Integral tire: *See* With, Cl. 295.
Integral, Trolley-rails, two-tread. Cl. 104-109.
Integral, Trucks, bogie, arch-bar type. Cl. 105-205.
Integral U-yoke, Trucks, platform, spring, side-frame base. Cl. 105-214.
Integral vamp and quarters, Uppers, blanks. Cl. 36-48+.
Integral, Walls, block, faced. Cl. 72-36.
Integral, Watches, cases, centers. Cl. 58-63.
Integral web-key and bars, Rail-joints. Cl. 238-183.
Integral with head, Rod to base, plate or head, handle to transverse tool-heads, socket in head, reinforcing-shield. Cl. 287-37.
Integral with tie, Fastenings, clamps. Cl. 238-350.
Integral with tool, Socket. Cl. 287-120.
Integrally connected, Separable fasteners, multiple. Cl. 24-204.
Integrators: *See* Area. Cl. 33.
Intensifiers, Telephones. Cl. 179-106+.
Interbraced: *See* Nested, stayed, or, Cl. 206.
Interchangeable back and seat, Reversible. Cl. 155-99.
Interchangeable button-loop and pin. Cl. 24-89.
Interchangeable hinge, Special car-bodies, dumping, doors. Cl. 105-281.
Interchangeable, Hoes. Cl. 55-43.
Interchangeable, Hopper-discharging, rotary. Cl. 221-131.
Interchangeable letters, Signs. Cl. 40-140+.
Interchangeable plates, Changeable exhibitors. Cl. 40-63+.
Interchangeable ported members, Nozzles, adjustable or variable discharge-port. Cl. 239-137.
Interchangeable styluses, Sound-boxes, laterally-undulating-record type. Cl. 274-36.
Interchangeable styluses, Sound-boxes, perpendicularly-undulating-record type. Cl. 274-31.
Interchangeably locked, Gearing. Cl. 74-57+.
Interchangeably operable, Drilling, hill-planting machines, depositing mechanisms. Cl. 111-35.
Interchanging, With heating or cooling. Cl. 261-10.
Interconnected arms, Supports. Cl. 258-24.
Interconnected back and leg rest, Reclining. Cl. 155-106+.
Interconnected, Mechanically operated, gate and latch, gate having translational movement. Cl. 39-47.
Interconnected, Mechanically operated, gate and latch, gate vertically pivoted. Cl. 39-29.
Interconnected, Mechanically operated, horizontally pivoted. Cl. 39-61+.
Interconnected, Mechanically operated, translational movement, horizontal. Cl. 39-66.
Interconnected, Mechanically operated, vertically pivoted. Cl. 39-62.
Interconnected plates, Selective or progressive, addressing-machines, bed and platen. Cl. 101-60+.
Interconnected, Special car-bodies, dumping, door-actuators, multiple door. Cl. 105-289+.
Interconnected, Trucks. Cl. 105-176.
Intercontrol: *See* Vehicle and occupant. Cl. 21.
Intercontrol of feed and discharge, Discharging, single, coöperating feed cut-offs. Cl. 249-30.
Intercontrol of feed and discharge, Discharging, single, single feed cut-off. Cl. 249-53.
Intercontrol of feed and discharge, Discharging, single, regulator. Cl. 249-38+.
Intercontrolled bevel-blades, Straight-edge type. Cl. 33-91.
Interengaging shackle ends, Inclosing housing, Seals. Cl. 292-317.
Interference-pads, Shoes, cushioned. Cl. 168-16.
Interfingered sections, Step by step, reciprocating bar. Cl. 193-60.
Interfitting parts, Seams or joints. Cl. 220-76+.
Intergeared: *See* Multiple. Cl. 81.
Intergeared handles, Pipe and rod cutters, pivoted. Cl. 81-200.
Intergeared reels, Changeable exhibitors, double reel and web. Cl. 40-95.
Interior end buffers, Special car-bodies, freight. Cl. 105-374.
Interior, Leak-stoppers. Cl. 114-228.
Interior of boiler, Separators. Cl. 122-491.
Interior of cylinder, Cylinder-head. Cl. 286-14.
Interior steam-space, Steam treatment, fire-tube boiler, horizontal, superheater. Cl. 122-463.
Interior, Trickler, tank. Cl. 257-190.
Interior valve, Acetylene, generators, water-feed, holder-operated. Cl. 48-10.
Interjoist, Pipe or cable hangers. Cl. 248-35.
Interlaced jaws, Socket type, radially-reciprocating jaws, transverse-screw actuated. Cl. 279-68.
Interlock: *See* Head and claw. Cl. 61.
Interlock: *See* Rail. Cl. 104.
Interlock, Fastenings, spikes. Cl. 238-367.
Interlock, Tie-plates, lap. Cl. 238-291.
Interlocked: *See* Loop. Cl. 59.
Interlocked base-sections, Rail-joints, chair, twin. Cl. 238-193+.
Interlocked joint: *See* Tube and plate. Cl. 29.
Interlocked joint, Molded joint, pipe and socket. Cl. 285-117.
Interlocked or lapped. Cl. 287-103+.
Interlocked or lapped, Flexible rod or strand. Cl. 287-77+.
Interlocked or lapped, Ribbon, band or flat rod. Cl. 287-64+.
Interlocked, Walls, block, solid. Cl. 72-38.
Interlocking. Cl. 200-50.
Interlocking. Cl. 246-131+.
Interlocking, Cranks and levers. Cl. 74-63.
Interlocking devices, Acetylene, generators, water-feed. Cl. 48-36.
Interlocking eyes, making, Joining wire, machines. Cl. 140-114.
Interlocking, Floors. Cl. 20-8.
Interlocking, Folded blank boxes, trays, corner-flaps. Cl. 229-35+.
Interlocking, Folded blank boxes, tubes, closures, inserted flaps. Cl. 229-39.
Interlocking jaw-handles, Wrenches, sliding adjustments, rack. Cl. 81-131.
Interlocking lap-seam, Metallic. Cl. 108-22.
Interlocking loops, Fabrics. Cl. 245-5.
Interlocking lugs: *See* Rail. Cl. 104.
Interlocking or overlapping, Pavements, structure, block or other preformed elements. Cl. 94-13.
Interlocking valves, Generators, cupola, water, up-and-down run. Cl. 48-83.
Interlocking, Walls, faced, tile. Cl. 72-25.
Interlocking washer: *See* Yielding. Cl. 151.
Intermediate angled pin, Rotary-shaft couplings, flexible or tumbling connections. Cl. 64-94.
Intermediate catenary, Truss, arrangement. Cl. 14-11.
Intermediate coupling, Flexible or yielding pipe. Cl. 285-75.
Intermediate cutter, Cutters, rotary, saw, double. Cl. 144-222.
Intermediate crank, Rotary-shaft couplings, flexible or tumbling connections. Cl. 64-93.
Intermediate draft, Fire-tube, horizontal, drop water fire-box, water-grate. Cl. 122-67.
Intermediate draft, Furnace structure, feeding air and steam, fire-box, superimposed. Cl. 110-63.
Intermediate draft, Furnace structure, fire-box, superimposed. Cl. 110-91.
Intermediate draft, Horizontal cylinder, water-tube, water-grate. Cl. 122-204.
Intermediate draft, Water-tube, over bridge-wall, water-grate. Cl. 122-287.
Intermediate exposure-chamber, Cameras, magazine, sliding plate. Cl. 95-26.
Intermediate fulcrum, Wrenches, sliding adjustments, rack, pivoted rack-catch. Cl. 81-140.
Intermediate fulcrum, Wrenches, sliding adjustments, rack, pivoted rack-catch, non-traveling. Cl. 81-136.
Intermediate gear, Steering mechanism, wheel and drum. Cl. 114-161.
Intermediate gear, Steering mechanism, wheel-shaft gearing, screw. Cl. 114-156.
Intermediate gear, Steering mechanism, wheel-shaft gearing, screw, right and left. Cl. 114-158.
Intermediate linked section, Rotary-shaft couplings, flexible or tumbling connections. Cl. 64-95.
Intermediate packing, Screw, longitudinal port. Cl. 285-156.
Intermediate pinion, Transfer mechanism. Cl. 235-139.
Intermediate signal, Block-signal systems, automatic, electric, line-current supply. Cl. 246-68.
Intermediate sleeve, Bolted flange. Cl. 285-131.
Intermediate sleeve, Duplicate end. Cl. 285-59.
Intermediate supply, Gas-operated, rotary, end supply, single shaft, double bucket. Cl. 253-75.
Intermediate supports, Vehicle, leaf. Cl. 267-52.
Intermediate, Wrenches, sliding adjustment, thread, non-traveling nut. Cl. 81-166+.
Intermediately-connected operator, Mechanically operated, gate and latch, gate vertically pivoted. Cl. 39-37+.
Intermediately-connected operator, Mechanically operated, vertically pivoted. Cl. 39-58+.
Intermediately-coupled fasteners, Flexible rod or strand. Cl. 287-76.
Intermeshing generator, Gear-cutting. Cl. 90-2.
Intermittent. Cl. 118-21+.
Intermittent, Block-presses, rotary mold, facial. Cl. 25-66+.
Intermittent, Block-presses, rotary mold, peripheral. Cl. 25-80+.
Intermittent contact, Block-signal systems, automatic, electric, cab signal or train control. Cl. 246-74.
Intermittent contact, Block-signal systems, automatic, electric, cab signal or train control, train-carried current-supply. Cl. 246-69+.
Intermittent contact, Block-signal systems, automatic, electric, direct current, normally closed, track-circuit, line-wire distant control, cab signal or train control. Cl. 246-49.
Intermittent contact, Block-signal systems, automatic, electric, direct current, normally closed, track-circuit, single block, cab signal or train control. Cl. 246-56.
Intermittent contact, Block-signal systems, automatic, electric, line-current supply. Cl. 246-92.
Intermittent contact, Block-signal systems automatic, electric, propulsion-current signaling. Cl. 246-85.
Intermittent contact, Cab signal or train control, train mechanism, electric or magnetic. Cl. 246-195.
Intermittent, Cutting and conveying, reciprocating-cutter type, endless carrier. Cl. 56-183.
Intermittent discharge. Cl. 299-25.
Intermittent discharge, Raking and loading. Cl. 56-361.
Intermittent discharge, Raking and loading, endless carrier. Cl. 56-346+.

Intermittent, Elements, tensioning. Cl. 112-265.
Intermittent feed, Motion-picture apparatus, picture-strip. Cl. 88-18.
Intermittent, Gaseous-fuel burners. Cl. 67-110+.
Intermittent-grip devices. Cl. 74-53+.
Intermittent-grip gear: *See* Positive. Cl. 176.
Intermittent grip, Interlocking, manual actuation, mechanical locking, compensators, counterweight. Cl. 246-154.
Intermittent grip, Linear, surface, drum. Cl. 212-143.
Intermittent grip, Locomotives. Cl. 105-32.
Intermittent grip, Mechanical movements, speed-controlled. Cl. 74-92.
Intermittent-grip type, Motion-picture apparatus, picture-strip, intermittent feed. Cl. 88-18.4+.
Intermittent impulse. Cl. 264-21.
Intermittent, Milking-machines, suction. Cl. 31-96+.
Intermittent record, Speed, shaft. Cl. 234-33.
Intermittent signal, Clocks, electric, striking. Cl. 58-39.
Intermittent supply, Ambulant discharge and stationary supply. Cl. 299-51.
Intermittent, Thermal switch, systems, display. Cl. 177-347.
Intermittent travel, Block-presses, endless chain of molds. Cl. 25-100.
Intermittent, Water-operated, rotary, center supply, gravity-bucket, horizontal axis. Cl. 253-35.
Intermittent, Water-operated, rotary, peripheral supply, single shaft, gravity-bucket, horizontal axis. Cl. 253-29.
Intermittent, Wire-feeding. Cl. 140-129+.
Intermittently controlled, Drilling, hill-planting machines, depositing mechanisms, primarily axle-driven. Cl. 111-37+.
Intermittently-movable record, Time, workmen's. Cl. 234-44+.
Intermittently-operated cam, Valve-operating mechanism, four-cycle. Cl. 123-94.
Intermittently-operated tappet, Valve-operating mechanism, four-cycle. Cl. 123-95.
Intermittently-rotated feed-drum, Motion-picture apparatus, picture-strip, intermittent feed. Cl. 88-18.2+.
Internal air-chamber, Hot-air furnaces. Cl. 126-106.
Internal air-chamber, Stoves, heating, hot air. Cl. 126-70.
Internal and external sleeve, Molded joint. Cl. 285-113.
Internal and external, Systems of distribution, convertible, multiple current-source. Cl. 191-4.
Internal annular shell, Tank, jacketed. Cl. 257-209.
Internal annular tank, Agitators and conveyers, vertical tank. Cl. 257-105.
Internal application, Medicators, thermal. Cl. 128-255.
Internal arm, Fastenings, clamps. Cl. 238-348.
Internal bar or closure: *See* External and, Cl. 220.
Internal, Bottle-stoppers. Cl. 215-28+.
Internal, Bottles, indicating. Cl. 215-112.
Internal, Can-making machines, head-seaming, roller, stationary chuck, rotary seaming-tool. Cl. 113-25.
Internal, Circulation, mechanical. Cl. 122-411.
Internal combustion: *Cf.* Explosion.
Internal combustion and air. Cl. 123-22.
Internal combustion and fluid-pressure, Combined types. Cl. 60-14+.
Internal combustion and turbine, Combined types. Cl. 60-11+.
Internal-combustion engines. Cl. 123.
Internal conduit, Circulation. Cl. 122-408+.
Internal conduit, Cleaning, blow-off, bottom. Cl. 122-383+.
Internal conduit, Feed-heaters. Cl. 122-428+.
Internal-cone actuated, Pivoted jaw. Cl. 279-108.
Internal cone, Radially-reciprocating jaws, lever-actuated. Cl. 279-120.
Internal cushion, Heels, cushion. Cl. 36-37.
Internal, Cylinder. Cl. 34-5+.
Internal exchange, Agitators and conveyers, horizontal rotary cylinder. Cl. 257-100.
Internal fire-tube, Flue, vertical, internal water-tube. Cl. 122-174.
Internal fire-tube, Sectional, horizontal sections, superimposed, water-tube. Cl. 122-220.
Internal fire-tube, Steam treatment, fire-tube boiler, horizontal, superheater, interior steam-space. Cl. 122-463.
Internal, Fire-tube, vertical, circulation-tube. Cl. 122-118.
Internal, Fire-tube, vertical, water-tube. Cl. 122-131.
Internal fire-tube, Water-tube. Cl. 122-266+.
Internal fire-tube, Water-tube, vertical. Cl. 122-348.
Internal flat plate, Vertical casing. Cl. 257-218.
Internal, Flue, vertical, circulation-tube. Cl. 122-159.
Internal gear, single pinion, Cutting, rotating-cutting-reel type, coaxial wheels, central cut. Cl. 56-254.
Internal generation. Cl. 60-27+.
Internal Inker, Stenciling, rotary machines. Cl. 101-119+.
Internal key, Rail-joints. Cl. 238-179.
Internal, Liquid fuel, burners, vapor, retort, air-mixing. Cl. 67-47.
Internal nipple, Flexible or yielding pipe. Cl. 285-80+.
Internal packing, Screw, longitudinal port. Cl. 285-157.
Internal, Pipe and plate, thimble. Cl. 285-54.
Internal plunger, Cutting apparatus, reciprocating die. Cl. 107-26.
Internal press-mold, Combined machines, pressing and blowing, in separate molds. Cl. 49-10.
Internal pressure-chamber, Tank. Cl. 257-196+.
Internal, Provision-safes, evaporative. Cl. 45-133.
Internal rack, Bicycle, propulsion, crank and gear, train. Cl. 208-47.
Internal rack, Polycycles, propulsion, crank and gear, train. Cl. 208-53.
Internal reciprocating packer, Pipe and socket, rotary engagement, lugged pipe. Cl. 285-176.
Internal reinforcements, Ties, non-metallic, plastic compound. Cl. 238-85+.
Internal remedies. Cl. 167-7.
Internal sleeve. Cl. 285-197.
Internal sleeve: *See* External and, Cl. 285.
Internal sleeve, Bolted flange, integral flange. Cl. 285-141.
Internal sleeve, Flexible or yielding pipe. Cl. 285-76+.
Internal stopper, Casting apparatus, metal holding and pouring, ladles, bottom-pour. Cl. 22-85.
Internal supply or discharge, With sliding reciprocating valve. Cl. 121-191.
Internal tube, Agitators and conveyers, horizontal rotary cylinder. Cl. 257-92+.
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Non-radial distributing-plate, Separators, receiving, distributing, and discharging. Cl. 233-29+.
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Non-refillable, Incandescent. Cl. 176-30.
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Non-resilient tires, Wheels. Cl. 21-155+.
Non-retracting trolley-stops, Collectors. Cl. 191-95.
Non-rewinding, Motion-picture apparatus, picture-strip. Cl. 88-18.7.
Non-rising screw, Reciprocating, gate, multi-faced, laterally expanding, wedge, gate-carrying. Cl. 251-71.
Non-rising stem, Reciprocating, disk or plug, screw-actuated. Cl. 251-47+.
Non-rising stem, Reciprocating, gate, multi-faced, screw-actuated. Cl. 251-62.
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Non-rocking: *See* Convertible to, Cl. 155.
Non-rotary, Systems, automatic. Cl. 179-25.
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Non-rotating piston, Moving cylinder, rotating. Cl. 121-54+.
Non-screw-feed distributer, Integral line, distributing. Cl. 199-35.
Non-screw-feed distributer-machines, Integral line, assembling, casting, and distributing. Cl. 199-12.
Non-slidable-poise feature, Scales, beam. Cl. 265-60.
Non-stop: *See* Combined stop and, Cl. 251.
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Non-stop, Independent-motion type, air-vent type. Cl. 277-48+.
Non-stop, Independent-motion type, multiway. Cl. 277-60+.
Non-stop, Independent-motion type, serial. Cl. 277-70+.
Non-stop valves. Cl. 251-114+.
Non-telescoping, Trains. Cl. 105-5+.
Non-traveling fulcrum, Wrenches, hand-grip, pivoted jaw, crossed handles. Cl. 81-80+.
Non-traveling, internal, Pipe and rod cutters. Cl. 81-188.
Non-traveling jaw, Wrenches, pivoted outer jaw, fixed fulcrum. Cl. 81-98+.
Non-traveling nut, Wrenches, sliding adjustments, thread. Cl. 81-166+.
Non-traveling, Pipe expanders and flangers. Cl. 153-79+.
Non-traveling screw, Wrenches, sliding adjustments, thread. Cl. 81-170+.

Non-traveling, Wrenches, sliding adjustments, rack, pivoted rack-catch. Cl. 81-135+.
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Non-underrunning, Conductors, trolley. Cl. 191-34.
Normal contact: *See* Face or, Cl. 200.
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Normally dead section, Sectional conductor. Cl. 191-16+.
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Normally folded, Wind-motors, rotary, parallel axis, wheel-deflection mechanism, folding wheel and tail-vane. Cl. 170-52.
Normally inoperative, Collectors, trolley, guards and finders. Cl. 191-82+.
Normally live section, Sectional conductor. Cl. 191-15.
Normally open track-circuit, Electric automatic highway-signals, mine-doors, and gates. Cl. 246-128+.
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Notched bar, Extension-link. Cl. 292-265+.
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Notched disk, Knotters, cord-holders. Cl. 289-14.
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Nozzle-actuated, Hand-oilers, forced feed. Cl. 221-50.
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Nozzles, Non-ambulant discharge and supply. Cl. 299-75+.
Nozzles, Non-ambulant discharge and supply, adjustable discharging member. Cl. 299-73+.
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Number, Shockers, automatic feed, forwardly-tilting shock, automatic shock-delivery trip. Cl. 56-421.
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Observatory-domes. Cl. 108-4.
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Obstacle-operated, Changeable exhibitors. Cl. 40-45+.
Obstacle-operated, Wheeled, attachments, steps, shiftable. Cl. 280-167.
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Offset pivot, Wheeled, running-gear, swinging axle. Cl. 280-117+.
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Oleaginous, Solid metal, compositions, heat-treating, liquid. Cl. 148-29.
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On column-guide, Trucks, bogie, lateral-motion bolster, swinging. Cl. 105-191.
On deck, Grain-adjusters. Cl. 56-467+.
On endless chain, Cornstalk type, pickers or huskers, moving knife. Cl. 56-118.
On hinge-post, Mechanically operated, gate and latch, gate vertically pivoted, intermediately-connected operator, lever. Cl. 39-40.
On inlet, With liquid separation. Cl. 261-4.
On lower running-gear, Power. Cl. 180-55+.
On metal, Processes, with heat, vitreous. Cl. 91-75.
On pivoted type, Distance, opposed contacts, dial. Cl. 33-148.
On two axes, Multiple movement. Cl. 39-77+.
On vertical axis, Multiple movement. Cl. 39-79+.
On vertical pivot, Mechanically operated, multiple movement. Cl. 39-12+.
One confined fluid. Cl. 257-248+.
One end attached, Gangways. Cl. 14-71.
One-fluid, Batteries. Cl. 204-33+.
One-hundred-and-eighty-degree limit, Straight-edge type, pivot-joints. Cl. 33-118+.
One internal header, Vertical casing, internal tube, vertical. Cl. 257-225+.
One leg, Props, pivoted. Cl. 208-75+.
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One metal solid, Processes, casting, composite articles. Cl. 22-203+.
One movable side, Socket type, split socket. Cl. 279-44+.
One-piece, Bale and package ties, metal bands, separate connections. Cl. 24-22+.
One-piece, Belt-fasteners. Cl. 24-35+.
One-piece, Buckles. Cl. 24-198+.
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One-piece, Buckles, harness, penetrating tongue. Cl. 24-176.
One-piece, Buckles, penetrating prong. Cl. 24-186+.
One-piece, Casings, chain. Cl. 208-148.
One-piece, Chains, links. Cl. 59-90+.
One-piece, Cord and rope holders. Cl. 24-129+.
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One-piece, Snap-hooks, resilient. Cl. 24-237.
One-piece, Strap-tighteners, midline, winders. Cl. 24-71.3.
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One-side dump, Special car-bodies, dumping, tilting body, pivoted, off center. Cl. 105-274+.
One-side filler, Rail-joints, chair, integral. Cl. 238-207.
One solid piston, Hollow piston-rod, double-acting. Cl. 103-71.
One-track passage, Trains. Cl. 105-7.
One traveling apron, Cigar-machines. Cl. 131-44.
One valve, Closed fluid-heaters, combined thermostat and flow controlled. Cl. 236-23.
One-way, Car-replacer. Cl. 104-268+.
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One-way friction-grip, Wheel or axle drive. Cl. 105-123.
One-wheel controlled, Wheeled, running-gear, occupant-steered. Cl. 280-92.
One-wheel, Wheeled, Cl. 280-78.
One-wheel, Wheeled, hand, trucks and barrows. Cl. 280-58.
One-wheel, Wheeled, hand, trucks and barrows, receptacle. Cl. 280-52.
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Opposed delivery, Rotary pumps, end supply, single shaft. Cl. 253-180.
Opposed flow, With fluid treatment, liquid. Cl. 233-15.
Opposed lever, Clocks, electric, hand-setters. Cl. 58-36.
Opposed magnets, Electric actuation, motor systems, reciprocating armature. Cl. 246-231+.

Opposed magnets, Electric actuation, motor systems, reciprocating armature, controller-actuated switches. Cl. 246-227+.
Opposed mold-wheel, Block-presses, rotary mold, peripheral, continuous. Cl. 25-76+.
Opposed motors, Electric actuation, motor systems, rotary armature. Cl. 246-241.
Opposed pawls: *See* Double. Cl. 246.
Opposed plunger, Block-presses, rotary mold, facial, intermittent. Cl. 25-67+.
Opposed plunger, Block-presses, stationary mold. Cl. 25-90+.
Opposed supply, Gas-operated, rotary, center supply, single shaft. Cl. 253-86.
Opposed supply, Gas-operated, rotary, end supply, single shaft. Cl. 253-74.
Opposed supply, Rotary pumps, center supply, single shaft. Cl. 253-190+.
Opposed supply, Rotary pumps, end supply, single shaft. Cl. 253-181.
Opposed swing, Switch-connected frogs, swinging rail. Cl. 246-390.
Opposing jaws, Curving or straightening, pivoted bender. Cl. 153-44.
Opposing jaws, Hand-bars and hand-barrows. Cl. 294-16.
Opposing jaws, Roadway vehicle loading or unloading, self loading or unloading vehicles, hand-trucks, hooking or gripping. Cl. 214-65.5.
Opposing jibs, Rotary cranes. Cl. 212-47.
Opposing load-engaging cams, Grapples, pivoted jaws, surrounding frame. Cl. 294-114.
Opposing pistons, Valved reciprocating piston. Cl. 103-82.
Opposing-torque equalizer, Motor placement. Cl. 105-135.
Opposing twin, Traction, cables, grippers, rollers, vertically movable. Cl. 104-233.
Opposite doors, Special car-bodies, dumping, inclined bottom. Cl. 105-255.
Opposite fire-boxes, Water-tube, separate banks. Cl. 122-304.
Opposite movement, Cameras, shutters, pivoted, blade. Cl. 95-62+.
Opposite movement, Cameras, shutters, sliding. Cl. 95-56.
Opposite, Nail-making, wire nails, multiple header. Cl. 10-48.
Opposite rotary bit-stocks, Boring, wheel-hub, axial, stationary work. Cl. 144-101.
Opposite supply and exhaust valves, Four-cycle. Cl. 123-86.
Oppositely hinged, Doors. Cl. 20-17.
Oppositely-swinging axles, Wheeled, running-gear, short turn, four-wheel controlled. Cl. 280-100+.
Oppositely swinging, Hopper type, bottom-opening, hinged doors, longitudinally hinged only. Cl. 298-33+.
Oppositely threaded, Coupled nut and bolt, thread-lock, superposed nuts. Cl. 151-16+.
Optical illusion, Amusement. Cl. 104-84.
Optical rectifiers, Motion-picture apparatus. Cl. 88-16.8.
Optical, Systems, automatic, facsimile. Cl. 178-6.
Optics. Cl. 88.
Optional face or back, Delivering. Cl. 271-85+.
Optometers. Cl 88-20+.
Oral, Bandaging, shields, respirators. Cl. 128-147.
Oral blowing-tube, Medicators, inhalers, vaporizers, nasal. Cl. 128-199.
Oral, Medicators, dosing devices. Cl. 128-222+.
Oral, Medicators, inhalers. Cl. 128-208.
Oral, Medicators, inhalers, vaporizers. Cl. 128-201.
Orbit: *See* Horizontal. Cl. 56.
Orbital-movement loopers, Special machines, leather-sewing, thread-handling. Cl. 112-55.
Orchard, Stoves, heating. Cl. 126-59.5.
Orchestrions, Automatic instruments. Cl. 84-193+.
Order-holders: *See* Train. Cl. 40.
Ordinary, Frames. Cl. 208-110.
Ordnance. Cl. 89.
Ordnance, Light-ray type, gun-sights. Cl. 33-48+.
Ordnance, Special work, arms-making. Cl. 29-1.11.
Ore and coal. Cl. 83.
Ore-bricks, Reducing and separating. Cl. 75-65.
Ore-detectors. Cl. 175-182.
Ores: *See* Desulfurizing. Cl. 75.
Ores: *See* Disintegrating. Cl. 75.
Ores, Electrolysis, aqueous bath. Cl. 204-15.
Organ. Cl. 84.
Organ and piano: *See* Combined. Cl. 84.
Organettes, Automatic instruments, wind. Cl. 84-247+.
Organic. Cl. 71-6.
Organs. Cl. 84.
Organs, Automatic instruments, wind. Cl. 84-240+.
Orienting: *See* Bucket. Cl. 214.
Orifice: *See* Spray. Cl. 299.
Ornament type: *See* Tree. Cl. 248.
Ornamental, Boxes. Cl. 229-8.
Ornamental, Chains. Cl. 59-80+.
Ornamental forms. Cl. 41-10+.
Ornamental, Fountains. Cl. 299-3+.
Ornamental heads. Cl. 85-53+.
Ornamental, Molds, block. Cl. 25-123.
Ornamental pins. Cl. 63-20.
Ornamental, Trimmings. Cl. 54-76.
Ornamental, Washers. Cl. 85-52.
Ornamentation. Cl. 41.
Ornamenting: *See* Perforating and, Cl. 25.
Ornaments: *See* Attaching. Cl. 112.
Ornaments and urns, Stove lids and tops, heating-stove. Cl. 126-219.
Ornaments, Plastering. Cl. 72-125.
Oronasal, Bandaging, shields, respirators. Cl. 128-146.
Oronasal, Medicators, inhalers. Cl. 128-205.
Oronasal, Medicators, inhalers, vaporizers. Cl. 128-195+.
Orthopedics. Cl. 128-68+.
Oscillating. Cl. 155-56+.
Oscillating: *See* Reciprocating or, Cl. 236.
Oscillating: *See* Rotary or, Cl. 56.
Oscillating, Acetylene, generators, water-feed. Cl. 48-32.
Oscillating and reciprocating blades, Folders, combination. Cl. 270-67.
Oscillating and rotating shuttle, Special machines, leather-sewing, shoe-sole, lock-stitch, curved needle. Cl. 112-38.
Oscillating apertured cutter, Wire-cutting. Cl. 140-143.
Oscillating apertured cutters, Cutting, machines. Cl. 164-40.
Oscillating, Bed-and-platen machines. Cl. 101-297+.
Oscillating bed, Bed-and-platen machines, oscillating. Cl. 101-298+.
Oscillating bed, Bed-and-platen machines, web. Cl. 101-291.
Oscillating bed, Multicolor, bed-and-platen machines, web. Cl. 101-197.
Oscillating blade, Folders. Cl. 270-80+.
Oscillating blade, Folders, revolving blade, registering cylinders. Cl. 270-75.
Oscillating blade, Folders, revolving blade, registering cylinders, multiple. Cl. 270-74.
Oscillating bucket, Water-operated. Cl. 253-19.
Oscillating chamber, Discharging, alternating, regulator. Cl. 249-25.
Oscillating chisel, Mortising. Cl. 144-80+.
Oscillating clamp, Wire-feeding, intermittent. Cl. 140-130.
Oscillating, Combined types, with mechanical motor, gravity. Cl. 60-9.
Oscillating contact, Code-transmitters. Cl. 178-85.
Oscillating contact, Snap. Cl. 200-67+.
Oscillating cutter, Cutting. Cl. 56-246+.
Oscillating cutter, Cutting and conveying. Cl. 56-155.
Oscillating, Cutters. Cl. 25-111.
Oscillating, Cutting, cutter members. Cl. 56-293.
Oscillating, Cutting, hand-operated cutter. Cl. 56-240+.
Oscillating cylinder. Cl. 123-42.
Oscillating cylinder, Rolling-contact machines, bed and cylinder. Cl. 101-277+.
Oscillating cylinder, Rolling-contact machines, bed and cylinder, web. Cl. 101-261.
Oscillating cylinder, Rolling-contact machines, bed and cylinder, web, perfecting. Cl. 101-258.
Oscillating cylinder with feeding or delivering, Rolling-contact machines, bed and cylinder, perfecting. Cl. 101-266.
Oscillating, Discharging, alternating, divided weigh-chamber. Cl. 249-33+.
Oscillating, Discharging, receptacle fixed, stirrer. Cl. 259-38+.
Oscillating, Distributers and feeders, nail-plate. Cl. 10-172.
Oscillating distributing-valve, Lubricators, force-feed, pumps. Cl. 184-34.
Oscillating double cutter, Planing, planers, tool-heads. Cl. 90-53.
Oscillating electrode, Igniters, sparkers, make and break. Cl. 123-169.
Oscillating, Embossing or penetrating, selective machines, piercing. Cl. 101-20.
Oscillating, Embossing or penetrating, special-article machines, hot die. Cl. 101-10.
Oscillating engagement, Duplicate end, longitudinal port, integral hook. Cl. 285-66+.
Oscillating feed-guide, Discharging, alternating, divided weigh-chamber. Cl. 249-32.
Oscillating feed-guide, Discharging, alternating, separate weigh-chamber. Cl. 249-27+.
Oscillating feed-guide, Removable weigh-chamber, alternating. Cl. 249-57.
Oscillating, Feeding, receptacle fixed, stirrer. Cl. 259-20.
Oscillating, Feeding, receptacle moving. Cl. 259-13.
Oscillating folding-blade, Folding and wrapping. Cl. 270-25.
Oscillating frames, Oscillating, swings. Cl. 155-60.
Oscillating, Fuel-feeders, spreader. Cl. 110-113.
Oscillating, Grain-adjusters, on deck, head or butt evener. Cl. 56-469.
Oscillating jack and former, Sole-machines, laying and leveling. Cl. 12-35.
Oscillating jack, Burnishing-machines, heel. Cl. 12-72+.
Oscillating jaws: *See* Transversely. Cl. 279.
Oscillating knife, Shaping. Cl. 144-146.
Oscillating link-drive, Planing, planers, reciprocating cutter, horizontal. Cl. 90-39.
Oscillating, longitudinal axis, Switches. Cl. 246-431.
Oscillating machine, Selective or progressive, addressing-machines, bed and platen, interconnected plates. Cl. 101-61.
Oscillating machine, Selective or progressive, addressing-machines, bed and platen, shifting chase. Cl. 101-64.
Oscillating machine, Selective or progressive, numbering, bed-and-platen machines, drum series. Cl. 101-80+.
Oscillating machines with roller and plate inker, Multicolor, bed-and-platen machines, single impression. Cl. 101-195.
Oscillating, Meters. Cl. 73-28.
Oscillating, Moving cylinder. Cl. 121-73+.
Oscillating, Multicolor, bed-and-platen machines. Cl. 101-200.
Oscillating, Non-reciprocating piston, Cl. 121-97+.
Oscillating or reciprocating looper, Stitch-forming, chain or double chain. Cl. 112-109.
Oscillating or reciprocating, zigzag fold, Folders. Cl. 270-79.
Oscillating partition, Discharging, alternating, divided weigh-chamber. Cl. 249-31.
Oscillating piston. Cl. 103-73.
Oscillating piston. Cl. 123-18.
Oscillating piston, Lubricators, force-feed, pumps. Cl. 184-32.
Oscillating propellers. Cl. 115-28+.
Oscillating, Receptacle fixed, stirrer. Cl. 259-100+.
Oscillating, Receptacle moving. Cl. 259-75+.
Oscillating, Receptacle moving, oscillating, stirrer. Cl. 259-77.
Oscillating, Receptacle moving, rotating, stirrer. Cl. 259-83.
Oscillating, Receptacle plural, fixed, stirrer. Cl. 259-62+.
Oscillating, Receptacle plural, moving. Cl. 259-56.
Oscillating rolls, Die-rolling. Cl. 80-25.
Oscillating saw, Sawing. Cl. 29-72.
Oscillating, Sawing. Cl. 125-19.
Oscillating seats, Spring-supported. Cl. 155-54+.
Oscillating, Selective or progressive, addressing-machines, bed and platen. Cl. 101-65.
Oscillating, Selective or progressive, bed-and-platen machines. Cl. 101-94+.
Oscillating sheaf-delivery member, Shockers, automatic feed, self-binding, vertical position, automatic shock-delivery trip. Cl. 56-406.
Oscillating sheaf-delivery member, Shockers, automatic feed, vertical position, rotary, vertical axis, automatic shock-delivery trip. Cl. 56-413.
Oscillating, Slicers, stay-log. Cl. 144-177.
Oscillating, Solid piston. Cl. 230-29.
Oscillating stirrer, Covers and stirrers. Cl. 259-117.
Oscillating, Stirrers. Cl. 259-127+.
Oscillating tool, Combined machines, Multiple-tool holder. Cl. 29-56.
Oscillating tool-head, Burnishing-machines, heel. Cl. 12-74+.
Oscillating valve, Four-cycle. Cl. 123-81.
Oscillating valve, Watering devices, fountains and troughs, float-controlled supply. Cl. 119-79.

Oscillating weigh-chamber, Discharging, single, cooperating feed cut-offs. Cl. 249-51.
Oscillating weigh-chamber, Discharging, single, single feed cut-off. Cl. 249-84.
Oscillating, Weight. Cl. 185-29+.
Oscillating weight, Wave propulsion. Cl. 115-5.
Oscillating work, Lathes, crank and crank-pin. Cl. 82-10.
Oscillation: *See* Sustained. Cl. 250.
Oscillation-circuits. Cl. 250-36+.
Oscillatory, Fabric-making, slat and wire, portable machines, strand-twisters, wire-crossers. Cl. 140-46.
Oscillatory, Grates. Cl. 126-170+.
Oscillatory, motor-operated, Kinesitherapy, appliances with applicators having specific movement. Cl. 128-48+.
Oscillatory, Non-ambulant discharge and supply, moving discharging member, spray-fluid actuated, reaction. Cl. 299-71.
Oscillatory, Reciprocating-saw machines, drag. Cl. 143-69.
Oscillatory, Sand-feeders. Cl. 291-28+.
Oscillatory, Stitch-forming, shuttle type. Cl. 112-192+.
Oscillatory, Thresher attachments. Cl. 193-17.
Oscillatory valve: *See* With, Cl. 121.
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Oscillatory, Water-motors. Cl. 170-94.
Oscillatory, Wind-motors. Cl. 170-7.
Osier-peelers. Cl. 144-207.
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Otoscopes, Diagnostics, specula, endoscopes, illuminating. Cl. 128-9.
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Over bridge-wall, Flue, horizontal, water-tube. Cl. 122-154.
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Over bridge-wall, Water-tube. Cl. 122-284+.
Over bridge-wall, Water-tube, cross. Cl. 122-254.
Over bridge-wall, Water-tube, horizontal. Cl. 122-263.
Over bridge-wall, Water-tube, loop. Cl. 122-277.
Over bridge-wall, Water-tube, rearwardly declined. Cl. 122-290+.
Over bridge-wall, Water-tube, spur. Cl. 122-313.
Over bridge-wall, Water-tube, zigzag. Cl. 122-357+.
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Over fire-box, Water-tube, rearwardly declined. Cl. 122-298+.
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Overedge, Methods and seams. Cl. 112-269.
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Overflow-check, With fluent materials, general types, filling, air displacement, pressure and overflow, Cl. 226-114.
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Overflow, With fluent materials, general types, filling, air displacement. Cl. 226-119+.
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Overground, Junction-boxes. Cl. 247-12+.
Overhanging end, Traveling cranes, gantry. Cl. 212-15+.
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Overhead crane, Trolley transfer. Cl. 104-98.
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Overhead, Hose-bridges. Cl. 104-276.
Overhead storage, Tops, curtains. Cl. 296-140+.
Overhead, Traveling cranes. Cl. 212-18+.
Overhead vehicle-washers. Cl. 299-81.
Overhead work, Boring, portable, hand. Cl. 144-105.
Overhung rakes, Grain-separators, straw-carriers. Cl. 130-22.
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Overlapped main, Continuous-rail crossings. Cl. 246-376.
Overlapped main, Switch-connected frogs. Cl. 246-383+.
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Overlying, Liquid fuel, burners, vapor, retort, air-mixing. Cl. 67-48.
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Overseaming, Stitch-forming, blindstitch. Cl. 112-177.
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Oyster rakes and tongs, Fishing. Cl. 43-12.
Ozone, Synthesis. Cl. 204-32.
Ozonizer, Medicators, inhalers, vaporizers. Cl. 128-190.

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Pack-advancer, Feeding, separators, buckling. Cl. 271-24+.
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Packed, Reciprocating, disk or plug, screw-actuated. Cl. 251-50.
Packed, Reciprocating, disk or plug, screw-actuated, non-rising stem. Cl. 251-48.
Packed, Rotary plug. Cl. 251-103.
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Packing: *See* External. Cl. 286.
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Packing and drawing, Molding apparatus. Cl. 22-25+.

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Packing, Compressing and binding, cord-knotter type. Cl. 56-443+.
Packing, Compressing and binding, cord-knotter type, pressure-tripped. Cl. 56-440+.
Packing, Compressing and binding, cord-knotter type, pressure-tripped, upstanding compresser control. Cl. 56-438+.
Packing, Cylinders and pistons. Cl. 74-109.
Packing furniture. Cl. 45-22.
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Packing in socket: *See* Flexible. Cl. 285.
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Packing sand, Molding apparatus. Cl. 22-40+.
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Pad-holders: *See* Pads and, Cl. 128.
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Pad-inker, Printing members and inkers. Cl. 101-333+.
Pad-inker, Selective or progressive, bed-and-platen machines, drum series. Cl. 101-101.
Pad-inker, Selective or progressive, bed-and-platen machines, oscillating. Cl. 101-98.
Pad-inker, Selective or progressive, bed-and-platen machines, oscillating, drum series. Cl. 101-97.
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Pitman: *See* Crank and, Cl. 208.
Pitman and rotor: *See* To, Cl. 105.
Pitman, Block-presses, portable mold, supported in race, plunger. Cl. 25–51.
Pitman, Block-presses, rotary mold, facial, intermittent, single-surface plunger. Cl. 25–73.
Pitman, Block-presses, stationary mold, opposed plunger. Cl. 25–96.
Pitman, Block-presses, stationary mold, single-surface plunger. Cl. 25–88.
Pitman-drive, Cutting, reciprocating central cutter, coaxial wheels. Cl. 56–260+.
Pitman to jack-shaft, Wheel or axle drive. Cl. 105–120+.
Pitman to lever, Wheel or axle drive. Cl. 105–123.
Pitman to rotor, Wheel or axle drive. Cl. 105–122.
Pitmen. Cl. 74–17+.
Pitters, corers, and eye-cutters. Cl. 146–6.
Pivot: *See* Adjustable. Cl. 294.
Pivot: *See* Adjusting means at, Cl. 155.
Pivot: *See* Adjusting means below, Cl. 155.
Pivot: *See* Angular. Cl. 220.
Pivot: *See* Cord-fastener. Cl. 20.
Pivot: *See* Fixed. Cl. 14.
Pivot: *See* Guide-rod. Cl. 20.
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Pivot: *See* Parallel. Cl. 42.
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Pivot: *See* Single. Cl. 114.
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Pivot: *See* Traveling. Cl. 197.
Pivot: *See* Vertical. Cl. 190.
Pivot: *See* Vertical. Cl. 217.
Pivot: *See* Vertical side. Cl. 105.
Pivot-clamp, Adjustable angle, hinged. Cl. 287–17.
Pivot-dog, Arc, starting and feeding, clutches. Cl. 176–107.
Pivot-dog, Arc, starting and feeding, combined special clutch and operating means. Cl. 176–86+.
Pivot in wheel-plane, Driven-steering-wheel type, stub-axle type. Cl. 180–48.
Pivot in wheel-plane, Driven-steering-wheel type, stub-axle type, four wheels driven. Cl. 180–47.
Pivot in wheel-plane, Driven-steering-wheel type, stub-axle type, four wheels driven, four steering-wheels. Cl. 180–46.
Pivot in wheel-plane, Wheeled, running-gear, vehicle occupant-steered, stub-axle, mounts. Cl. 280–96.3.
Pivot intermediate, Mechanically operated, gate and latch, gate vertically pivoted. Cl. 39–30.
Pivot intermediate, Mechanically operated, vertically pivoted. Cl. 39–53.
Pivot-joints, Straight-edge type. Cl. 33–115+.
Pivot-swung, Harrows, disk, pivoted gang. Cl. 55–124.
Pivot transverse, Horizontally pivoted. Cl. 39–91+.
Pivot transverse, Mechanically operated, gate and latch, gate horizontally pivoted. Cl. 39–43+.
Pivot wheel-engaging member, Car-pusher type, pinch-bar. Cl. 254–38.
Pivotal adjustment: *See* Sliding. Cl. 33.
Pivotal, Distance, single or offset contact, screw adjustment. Cl. 33–171.
Pivotal indicator, Muscular strength, spring-scale instruments. Cl. 265–22.
Pivotal indicator, Scales, beam, auxiliary or substitute indicator, spring. Cl. 265–59.
Pivotal indicator, Scales, beam, slidable poise. Cl. 265–57.
Pivotal indicator, Scales, computing, beam, slidable poise. Cl. 265–31.
Pivotal indicator, Scales, computing, pendulum. Cl. 265–37.
Pivotal indicator, Scales, computing, spring. Cl. 265–39.
Pivotal indicator, Scales, pendulum. Cl. 265–62.
Pivotal indicator, Scales, spring. Cl. 265–48.
Pivotal indicator, Scales, spring, handling load-holder. Cl. 265–67.
Pivotal indicator, Scales, spring, refrigerator Cl. 265–65.
Pivotal indicator, Scales, vehicle, spring Cl. 265–42.
Pivotal indicator, Strength of material, spring-scale instruments. Cl. 265–19.
Pivotal, Wood-bending, former. Cl. 144–267+.
Pivotally, Attached. Cl. 228–48.
Pivotally-connected sections, Bodies, doors and windows. Cl. 296–49.
Pivotally-connected sections, Bodies, endgates, rearwardly removable. Cl. 296–55.
Pivotally-connected sections, Tops, letdown type. Cl. 296–108.
Pivotally-connected sections, Wheeled, attachments, whip-sockets, whip-gripping. Cl. 280–174.
Pivotally connected, Wheeled, running-gear, bolsters and standards. Cl. 280–145.
Pivoted. Cl. 251–10+.
Pivoted: *See* Swinging or, Cl. 299.
Pivoted above seat, Folding and adjustable backs. Cl. 155–156.
Pivoted amplifier, Mechanical, flat tablet. Cl. 274–16.
Pivoted, Anchors, fluke. Cl. 114–208.
Pivoted and fixed jaws, Traction, cables, grippers. Cl. 104–216.
Pivoted and reciprocating contact: *See* Combined. Cl. 200.
Pivoted and sliding reaches, Wheeled, running-gear, short turn, four-wheel controlled, oppositely-swinging axles. Cl. 280–101.
Pivoted arm or jaw, Holders, brackets. Cl. 208–87.
Pivoted arm, Reeling and unreeling, reels, contractile. Cl. 242–111+.
Pivoted arm, Saw-guides. Cl. 143–165.
Pivoted arm, Supports. Cl. 179–149+.
Pivoted arm, Switchboards, movable contact. Cl. 175–302.
Pivoted arms, Gravity systems, tilting track, both ends movable. Cl. 186–6.
Pivoted auxiliary tools, Type, pliers, modified handles. Cl. 7–5.
Pivoted back, Folding chairs, integral front legs and back, crossed legs. Cl. 155–144.
Pivoted, Bandaging, trusses, supports, pad-carriers. Cl. 128–108+.
Pivoted, Bar, bars, heads. Cl. 197–37.
Pivoted bar, Restraining devices, pokes, bar and bow. Cl. 119–140.
Pivoted bar, Transom-lifters. Cl. 268–24.
Pivoted, Beehives, frames. Cl. 6–3.
Pivoted bender, Angular. Cl. 153–15+.
Pivoted bender, Combined operations, angular banding and curving. Cl. 153–4+.
Pivoted bender, Corrugating. Cl. 153–75.
Pivoted bender, Curving or straightening. Cl. 153–39+.
Pivoted bit, Cutters, rotary, disk, multiple clamping-disks. Cl. 144–232.
Pivoted bit, Reamers, expansible. Cl. 255–76.
Pivoted, Bodies, dashboards, securing devices. Cl. 296–73.
Pivoted, Bottle-stoppers. Cl. 215–34+.
Pivoted bucket, Water-operated, rotary, peripheral supply, single shaft, gravity-bucket, horizontal axis. Cl. 253–30.
Pivoted, Buckles, harness, penetrating tongue. Cl. 24–178+.
Pivoted, Buckles, Penetrating prong. Cl. 24–188+.
Pivoted, Cab signal or train control, track-trips. Cl. 246–203.
Pivoted cable extension, Linear, cable, load suspension, sheave-catch. Cl. 212–101.
Pivoted cam and hook, Grapples. Cl. 294–101.
Pivoted, Cameras, shutters. Cl. 95–56+.
Pivoted, Casters, anti-friction-rollers. Cl. 16–72.
Pivoted, Casters, ball. Cl. 16–152.
Pivoted catches, sliding bar, Mail-bags, fasteners. Cl. 150–26.
Pivoted, Centerboards. Cl. 114–132+.
Pivoted, Chains, links, detachable, double lap. Cl. 59–88.
Pivoted chaser-carrier, Screw-threading, machines, collapsing die. Cl. 10–100.
Pivoted, Chutes, gates. Cl. 193–46.
Pivoted clamp, Forging, tire-upsetting. Cl. 78–57+.
Pivoted, Clasps. Cl. 24–248+.

Pivoted closure, Chains, links, detachable, Cl. 49–89.
Pivoted, Closures. Cl. 220–30+.
Pivoted, Closures and chutes, coin-trap. Cl. 232–57+.
Pivoted contact, Multiple-circuit control. Cl. 200–6+.
Pivoted, Coupled nut and bolt, pawl and ratchet, nut-carried pawl. Cl. 151–12.
Pivoted covers, Dishes and plates. Cl. 65–60.
Pivoted cutter, Cutting, machines. Cl. 164–41+.
Pivoted cutter, Machines, strip, severing. Cl. 216–29+.
Pivoted cutter release, Planing, planers, tool-heads. Cl. 90–54.
Pivoted cutter, Wire-cutting. Cl. 140–144.
Pivoted detent. Cl. 285–187+.
Pivoted detent, Lock-releasing, thrust. Cl. 194–54+.
Pivoted, Diagnostics, specula. Cl. 128–17+.
Pivoted, Distance, opposed contacts. Cl. 33–149+.
Pivoted edge-stays. Cl. 24–267.
Pivoted end, Bolts, sliding. Cl. 292–192.
Pivoted end-lock, Bolts. Cl. 85–3.
Pivoted ends, Ties, forms, jointed. Cl. 238–33.
Pivoted, Fastenings, clamps, hooks. Cl. 238–338.
Pivoted, Filling-cans, closures. Cl. 221–6.
Pivoted, Filling-cans, nozzles. Cl. 221–26.
Pivoted former, Upper crimping and stretching, former and wiper. Cl. 12–101.
Pivoted frame: *See* Horizontally. Cl. 20.
Pivoted front or back, Spring-supported, oscillating seats. Cl. 155–55.
Pivoted fulcrum member, Nail-extractor type, single-throw lever, claw-bar. Cl. 254–27.
Pivoted gang, Harrows, disk. Cl. 55–81+.
Pivoted gate, Rotary, center supply, single shaft, angular vane. Cl. 253–169.
Pivoted gate, Rotary, end supply, single shaft, angular vane. Cl. 253–155.
Pivoted gate, Rotary, peripheral supply, end delivery, angular vane. Cl. 253–122.
Pivoted gate, Rotary, peripheral supply, end delivery, jet, plural. Cl. 253–131.
Pivoted gate, Rotary, peripheral supply, end delivery, scroll, plural. Cl. 253–128.
Pivoted gate, saw-making, sharpening and gumming, rotating tool. Cl. 76–40.
Pivoted, Grapples, expanding. Cl. 294–97+.
Pivoted, Grapples, expanding, cam-spread jaws. Cl. 294–95.
Pivoted graspers, Plate and receptacle lifters. Cl. 294–28+.
Pivoted gripping-piece, Wrenches, hand-grip, pivoted jaw, crossed handles, non-traveling fulcrum. Cl. 81–81.
Pivoted guide, Doors, car, grain, vertical slide. Cl. 20–33.
Pivoted guide, Twine-holders, take-ups. Cl. 242–144.
Pivoted guides, Reciprocating-saw machines, vibrated saw. Cl. 143–83.
Pivoted hammer, Breech-loading, sliding breech-block, rearward. Cl. 42–20+.
Pivoted, Hand forks and shovels. Cl. 294–53.
Pivoted handle: *See* Trolley-supported. Cl. 214.
Pivoted handles, Punching, implements. Cl. 164–120+.
Pivoted head, Case-shifts, type-bar. Cl. 197–75.
Pivoted head, Meat-tenderers. Cl. 17–28.
Pivoted head, Separable fasteners, head and socket, axial closures. Cl. 24–212.
Pivoted hook or loop, Duplicate end, longitudinal port. Cl. 285–65.
Pivoted horizontal latches, Couplings, Janney type. Cl. 213–11.
Pivoted indicator. Cl. 235–127.
Pivoted, Indicators, hand-set. Cl. 116–134.
Pivoted inner jaw, Knotters, rotary lateral bill. Cl. 289–8+.
Pivoted inner jaw, Wrenches. Cl. 81–92+.
Pivoted intermediate the ends, Orthopedics, osteal adjusters, couches. Cl. 128–74.
Pivoted jack, Lasting and nailing machines. Cl. 12–5.
Pivoted, Jar-closures. Cl. 215–90.
Pivoted jaw. Cl. 279–106+.
Pivoted jaw, Cord and rope holders, lacing-terminals. Cl. 24–120.
Pivoted jaw, Fruit-gatherers, pole-supported. Cl. 56–334+.
Pivoted jaw, Grapples, fixed and movable jaw. Cl. 294–104+.
Pivoted-jaw grip: *See* Lever and, Cl. 254.
Pivoted jaw-piece, Pliers and tongs, crossed handles. Cl. 294–45.
Pivoted jaw, Stove implements, lid-lifter. Cl. 294–13.
Pivoted jaw, Vises. Cl. 81–21+.
Pivoted jaw, Wrenches, hand-grip. Cl. 81–78+.
Pivoted jaws, Bags, closures. Cl. 150–4.
Pivoted jaws, Grapples. Cl. 294–106+.
Pivoted jaws, handle-lever grip: *See* Multiple. Cl. 81.
Pivoted jaws, Mail-bags, closures. Cl. 150–16.
Pivoted jaws, Socket type. Cl. 279–25+.
Pivoted jaws, Transplanters. Cl. 55–66.
Pivoted jaws, Transplanters, posthole-diggers. Cl. 55–71.
Pivoted jaws, Wheeled, attachments, rein-holders, clamp, spring. Cl. 280–185.
Pivoted knife-carrier, Combined machines. Cl. 164–14.
Pivoted knife, Fruit-gatherers, pole-supported. Cl. 56–335+.
Pivoted knife, Straw-cutters. Cl. 146.
Pivoted knife, Tobacco-cutters. Cl. 131–33.
Pivoted, Land-rollers. Cl. 55–47.
Pivoted lateral axis, Wheeled and runner, retracting wheel or runner. Cl. 280–11.
Pivoted lever and screw, Bench-planes, bit adjustments, longitudinal. Cl. 145–13.
Pivoted-lever buckle, Fasteners combined, buckle separable. Cl. 24–78.
Pivoted lever, Buckles. Cl. 24–191+.
Pivoted lever, Clamps, portable. Cl. 144–302.
Pivoted, Linear, cable, load suspension, rope-catch. Cl. 212–106+.
Pivoted, Linear, cable, load suspension, sheave-frame catch. Cl. 212–104+.
Pivoted mast: *See* Portable, horizontally. Cl. 212.
Pivoted nail-carrier, Machines, shoe, wire-nail forming and driving. Cl. 1–29.
Pivoted, Non-stop valves. Cl. 251–123+.
Pivoted on forwardly-extending arms, Folding and adjustable backs. Cl. 155–155.
Pivoted or linked rim-segments, Spring-wheels, deformable outer rim. Cl. 152–30.
Pivoted or resilient arms, Clasps, button and loop. Cl. 24–246.
Pivoted or rotary, Socket type, side detent. Cl. 279–77+.
Pivoted or sliding jaw, Necktie-fasteners, button-engaging. Cl. 24–59.
Pivoted or sliding lock, Separable-fasteners, head and socket, axial closures. Cl. 24–211.
Pivoted outer jaw, Wrenches. Cl. 81–98+.
Pivoted panels: *See* Connected horizontally. Cl. 296.
Pivoted panels, Bodies, storm-front shields, aprons, and robes, wind-shields, auxiliary protectors. Cl. 296–96.
Pivoted part, Cord and rope holders. Cl. 24–132+.
Pivoted part or lever, Buckles, harness, clamping. Cl. 24–170.
Pivoted parts, Bale and package ties, metal bands, separate connections. Cl. 24–24.
Pivoted pawl, Wrenches, clutched head, ratchet. Cl. 81–61+.
Pivoted pawls, Bit-stocks, ratchet. Cl. 145–72.
Pivoted, Pin-fasteners. Cl. 24–160.
Pivoted, Pin-fasteners, guards. Cl. 24–157.
Pivoted, Pipe and rod cutters. Cl. 81–196+.
Pivoted, Pipe and socket, detent. Cl. 285–170+.
Pivoted plates, Changeable exhibitors. Cl. 40–67.
Pivoted, Props. Cl. 208.
Pivoted rack-catch, Vises, rack-lock. Cl. 81–30.
Pivoted rack-catch, Wrenches, sliding adjustments, rack. Cl. 81–134+.
Pivoted rail: *See* Center. Cl. 246.
Pivoted rail: *See* End. Cl. 246.
Pivoted rail, Continuous-rail crossings. Cl. 246–377.
Pivoted, Rail-joints. Cl. 238–166.
Pivoted, Rail-joints, chair, angle. Cl. 238–196.
Pivoted, Rail-seats. Cl. 238–277.
Pivoted ramp, Car-replacer, one-way. Cl. 104–271.
Pivoted receiver, Letter-boxes. Cl. 232–28.
Pivoted rods: *See* Parallel. Cl. 294.
Pivoted, Sand-delivery pipe, nozzles. Cl. 291–47.
Pivoted sash: *See* Horizontally. Cl. 20.
Pivoted sash: *See* Vertically. Cl. 20.
Pivoted saw-carriage, Saw-making, sharpening and gumming, rotating tool. Cl. 76–42.
Pivoted seat. Cl. 185–26.
Pivoted sections, Hopper type. Cl. 298–25.
Pivoted set, Saw-making, setting. Cl. 76–61+.
Pivoted shackle, Padlocks. Cl. 70–105+.
Pivoted shackle, Padlocks, indicator. Cl. 70–111.
Pivoted shackle, Padlocks, permutation. Cl. 70–112.
Pivoted, Shutters, slats. Cl. 20–62.
Pivoted, Shutters, slats. Cl. 189–62.
Pivoted side boards, Bodies, convertible box, hay and box, stock. Cl. 296–14.
Pivoted side jaw, Wrenches. Cl. 81–111+.
Pivoted side plates, Saddles, harness. Cl. 54–40.
Pivoted side-shaper: *See* Combined reciprocating bender and, Cl. 153.
Pivoted side tilt, Doors, car, grain. Cl. 20–29.
Pivoted slide, Sand-feeders. Cl. 291–35.
Pivoted, Snap-hooks. Cl. 24–232+.
Pivoted, Spars, gaffs, booms, etc. Cl. 114–98.
Pivoted, Special car-bodies, dumping, tilting body. Cl. 105–270+.
Pivoted, Staffs, ratchet-handles. Cl. 188–57.
Pivoted straight-edge and sliding non-pivoted, Straight-edge type. Cl. 33–97.
Pivoted straight-edges: *See* Multi. Cl. 33.
Pivoted striker: *See* Fixed, with, Cl. 116.
Pivoted striker, Bells, gong type. Cl. 116–155+.
Pivoted stud-plate, Buckles, harness, cross-balls. Cl. 24–173.
Pivoted support on axle, Power, on lower running-gear. Cl. 180–61.
Pivoted support on axle, Power, on lower running-gear, frame. Cl. 180–59.
Pivoted supports, Gearing. Cl. 74–101+.
Pivoted suspension: *See* Hangers. Cl. 248.
Pivoted swage, Saw-making, swaging. Cl. 76–52.
Pivoted table, Angular, roll, flanging. Cl. 153–31.
Pivoted teeth. Cl. 55–7.
Pivoted, telescoping, spring-carrying spokes, Spring-wheels. Cl. 152–47.
Pivoted throwing-arm, Target-traps. Cl. 124–5+.
Pivoted thrust-bars, Stretcher type, carpet, single-throw lever. Cl. 254–63.
Pivoted, Tide or wave, float. Cl. 253–11.
Pivoted tongue, Cutting and conveying, reciprocating-cutter type, endless carrier, central cutter, coaxial wheels, tilting platform. Cl. 56–188.
Pivoted tool-rest, Axial pattern. Cl. 82–12.
Pivoted tools, Holders. Cl. 7–16.
Pivoted tooth-bar, Harrows, wheel. Cl. 55–90.
Pivoted tooth-bar, Harrows, wheel, spring. Cl. 55–92.
Pivoted tooth-bars. Cl. 55–8+.
Pivoted top boards, Bodies, convertible box, hay and box, stock. Cl. 296–13.
Pivoted to pedestal, Orthopedics, osteal adjusters, couches, gap intermediate the ends. Cl. 128–73.
Pivoted track, Elevator or hoist type, inclined, ditching type. Cl. 214–102.
Pivoted trammel, Distance, opposed contacts, beam-trammel type. Cl. 33–160.
Pivoted trap, Closures and chutes, Letter-box. Cl. 232–47+.
Pivoted tray, Trunks, tray movers and supporters. Cl. 190–31+.
Pivoted tumbler, Locks. Cl. 70–75.
Pivoted, Vehicle-energy actuation, train-trips. Cl. 246–365+.
Pivoted, Vehicle, motion and direction. Cl. 116–51+.
Pivoted vertical latches, Couplings, Janney type. Cl. 213–12.
Pivoted, Waist-line body-garment, shoulder suspension, connections, self-adjusting. Cl. 241–24.
Pivoted wheel-carrier, Wheeled, extensible, folding. Cl. 280–38+.
Pivoted, Wheel-mounts, movable. Cl. 64–70.
Pivoted work-holder, Reciprocating-saw machines, special cut. Cl. 143–77.
Pivoted, Wrenches, flexible, link, handle-jaw. Cl. 81–69.
Pivots: *See* Bearings and, Cl. 104.
Pivots: *See* Brace and bow. Cl. 296.
Pivots, steps and mast-caps, Rotary cranes. Cl. 212–70.
Pivots, Transom-lifters. Cl. 16–142.
Placement: *See* Motor. Cl. 105.
Placement: *See* Passenger. Cl. 105.
Placer: *See* Transverse tie. Cl. 104.
Placers: *See* Nail. Cl. 145.
Placing devices: *See* Hand. Cl. 246.
Placket-closures, Nethergarments. Cl. 2–132.
Plain bar, Grooming devices, currycombs. Cl. 119–90.
Plait: *See* Box. Cl. 112.
Plaited, Trimmings. Cl. 2–16.
Plaiters. Cl. 223–39+.
Plaiting, Box-machines. Cl. 93–60.
Plaits: *See* Slit. Cl. 105.

Plane: *See* Air. Cl. 105.
Plane: *See* Multiple. Cl. 244.
Plane: *See* Pivot in wheel. Cl. 280.
Plane: *See* Scoring. Cl. 144.
Plane: *See* Sliding. Cl. 147.
Plane-adjusters: *See* Printing. Cl. 197.
Plane bit-seat, Cutters, rotary, polygonal. Cl. 144–225.
Plane bit-seat, Cutters, rotary, radial arms. Cl. 144–228.
Plane field, Locomotives, electric, rotor on axle. Cl. 105–56+.
Plane gear, Wheel or axle drive. Cl. 105–108+.
Plane surfaces, Glass and stone. Cl. 51–11.
Plane surfaces, Metal. Cl. 51–12.
Plane surfaces, Wood. Cl. 51–13.
Plane top, Rail-seats, cast. Cl. 238–271.
Plane top, Rail-seats, wrought. Cl. 238–274.
Planer, Combined machines, type of machine. Cl. 29–30.
Planer, Saw-teeth. Cl. 143–143.
Planers. Cl. 144–114+.
Planers, Planing. Cl. 90–34+.
Planes: *See* Bench. Cl. 145.
Planes: *See* Scraping. Cl. 145.
Planetary, Bicycle, propulsion, crank and gear. Cl. 208–74.
Planetary blade, Folders, revolving blade, fold-off-rolls type. Cl. 270–77.
Planetary drum series, Selective or progressive, numbering, rotary machines. Cl. 101–77.
Planetary, Gearing. Cl. 74–34+.
Planetary machines, Napping. Cl. 26–19.
Planetary movement, Non-reciprocating piston, rotary. Cl. 121–68+.
Planetary movement, With power transmission. Cl. 233–25.
Planetary, Polycycles, propulsion, crank and gear. Cl. 208–51.
Planetary, Selective or progressive, numbering, printing members, drum series. Cl. 101–96+.
Planetary, Wheel or axle drive. Cl. 105–97.
Planimeters, Area-integrators. Cl. 33–122.
Planing. Cl. 90–24+.
Planing. Cl. 125–9.
Planing: *See* Gear-cutting, milling, and, Cl. 90.
Planing and matching, Combined machines. Cl. 144–36.
Planing and polishing, Combined machines. Cl. 144–38.
Planing and sawing, Combined machines. Cl. 144–39.
Planing, matching and dividing, Combined machines. Cl. 144–37.
Planking: *See* Sheathing and, Cl. 114.
Planking: *See* Ship. Cl. 144.
Planks and transoms: *See* Spring. Cl. 105.
Planographic. Cl. 101–130+.
Planographic printing-surface, Processes. Cl. 95–5.4.
Planographic printing-surface, Surface type, chemical. Cl. 41–41.5.
Planographic, Processes, multicolor-printing surface. Cl. 95–5.2.
Plans, Buildings. Cl. 20–1.1.
Plant frames and houses. Cl. 47–27.
Plant-row trimmers: *See* Hedge or, Cl. 56.
Plant-setting. Cl. 111–2+.
Plant-stands. Cl. 47–25+.
Planter-element arrangement, Drilling, single-row implements. Cl. 111–81.
Planter elements: *See* With adjustable. Cl. 111.
Planting. Cl. 111.
Planting-element arrangement: *See* Frame and, Cl. 111.
Plants. Cl. 122–1+.
Plants. Cl. 237–13.
Plants. Cl. 266–13.
Plants: *See* Brickmaking. Cl. 25.
Plants: *See* Domestic. Cl. 48.
Plants: *See* Generating. Cl. 123.
Plants: *See* Heat and power. Cl. 237
Plants: *See* Heating. Cl. 290.
Plants: *See* Molding. Cl. 18.
Plants: *See* Power. Cl. 60.
Plants: *See* Prime-mover dynamo. Cl. 290.
Plants and flowers: *See* Trees, Cl. 47.
Plants, Casting apparatus. Cl. 22–64.
Plants, Molding apparatus. Cl. 22–20.
Plaque-retainers, Picture-hangers. Cl. 40–145.7.
Plaques and surfaces, Surface type, pigment. Cl. 41–32.
Plaster-boards, Plastering. Cl. 72–124.
Plaster of Paris, Artificial stone. Cl. 106–34.
Plaster of Paris, Bandaging, fracture apparatus, splints, shaped and shapable, plastic. Cl. 128–91.
Plaster of Paris, Heat-insulating. Cl. 106–20.
Plastering. Cl. 72–123+.
Plastering-machines, Implements. Cl. 72–130.
Plasters. Cl. 167–8.
Plastic: *See* Block and, Cl. 72.
Plastic: *See* Wood and, Cl. 72.
Plastic, and wooden: *See* Earth, stone, Cl. 256.
Plastic, Bandaging, fracture apparatus, splints, shaped and shapable. Cl. 128–90+.
Plastic block and earthenware apparatus. Cl. 25.
Plastic, Bottles, necks, breakable, stoppers. Cl. 215–111.
Plastic compositions. Cl. 106.
Plastic compound, Ties, non-metallic. Cl. 238–84+.
Plastic-covered, Columns. Cl. 72–74.
Plastic-covered, Walls, block and plastic. Cl. 72–31+.
Plastic-filled, Arches, girders. Cl. 72–60.
Plastic-filled, Columns. Cl. 72–75.
Plastic-filled, Walls, block and plastic. Cl. 72–29.
Plastic head, Lacing devices, eyelets. Cl. 24–142.
Plastic head, Lacing devices, studs. Cl. 24–148.
Plastic lining and coating, Pipe-machines. Cl. 25–38.
Plastic masses: *See* From, Cl. 154.
Plastic material, Coffins. Cl. 27–7.
Plastic-metal working. Cl. 207.
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Platform, Oscillating, rocking. Cl. 188–71+.

Platform, Receptacle-stands, swinging, vertical axis. Cl. 248–62.
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Plural upper transverse drum, Water-tube, vertical. Cl. 122-352.
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Plurality of position-markers, Indexed. Cl. 283-37+.
Plurality of rows, Cornstalk type, pickers or huskers, roller. Cl. 56-105+.
Plurality of seats, Oscillating, swings. Cl. 155-62+.
Plurality of seats, Revolving, car-seat type. Cl. 155-97.
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Positive knee-lock, Composing-sticks. Cl. 276–39.
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Positive, Watches, stop. Cl. 58–78+.
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Positively operated, Impellers, paddle-wheel, feathering-blades, radial axes. Cl. 170–188+.
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Revolving, Moldboards. Cl. 97-23.
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Revolving pivotal folding-blade, Associating and folding, sheet-associating, cylinder-collecting, additional-sheet associating. Cl. 270-49.
Revolving, Plant-stands. Cl. 45-26.
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Roller-applying, Journal-boxes, lubricating. Cl. 64-33+.
Roller, Bandaging, bandages, bands. Cl. 128-170.
Roller, Bar, bars, bearings. Cl. 197-39.
Roller-bearing frame, Wheeled, running-gear. Cl. 280-105.
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Roller, Bed-and-platen machines, oscillating, oscillating bed, inker. Cl. 101-305.
Roller, Bed-and-platen machines, reciprocating bed, inker. Cl. 101-320+.
Roller, Bed-bottoms, fabric, tighteners. Cl. 5-68.
Roller, Bolts, double-acting. Cl. 292-73.
Roller, Bolts, double-acting, sliding. Cl. 292-75.
Roller, Bolts, double-acting, spring-arm. Cl. 292-77.
Roller, Bolts, double-acting, swinging. Cl. 292-79.
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Roller, Bolts, sliding. Cl. 292-193.
Roller, Bolts, swinging. Cl. 292-239.
Roller, Brake-shoes. Cl. 188-69.
Roller, Brakes. Cl. 208-59.
Roller, Can-making machines, head-seaming. Cl. 113-19+.
Roller-carriage, Door-hangers. Cl. 16-90+.
Roller-chain, Chain-making. Cl. 59-4.
Roller, Cigar-machines. Cl. 131-45.
Roller, Clocks, calendar. Cl. 58-6.
Roller-clutch, Wrenches, attachments and adjuncts. Cl. 81-183.
Roller-clutch, Wrenches, sliding adjustments, shank-grip. Cl. 81-153.
Roller, Collectors, trolley, indefinite path. Cl. 191-56.
Roller, Combined machines, stock and blank feeders. Cl. 29-63.
Roller, Cornstalk type, pickers or huskers. Cl. 56-104+.
Roller-cutter and punch, Combined machines. Cl. 164-16.
Roller-cutter, Cutting, implements, traveling. Cl. 164-84.
Roller-die, Cutting, die, machines. Cl. 164-28.
Roller-die, Nail-making, wrought nails, spikes. Cl. 10-58.
Roller, Drills, bits, and augers. Cl. 255-71.
Roller, Expanded metal. Cl. 164-6.6.
Roller, Expressing. Cl. 100-47.
Roller-feed, Circular-saw machines. Cl. 143-55+.
Roller-feed, Circular section, spiral-grooving, cutter, rotary. Cl. 142-34.
Roller-feed, Copy-holders, movable copy. Cl. 120-30+.
Roller-feed, Cutting, die, machines, work-feeding. Cl. 164-22.
Roller-feed, Cutting, machines, fixed cutter, work-feeding. Cl. 164-39.
Roller-feed, Cutting, machines, reciprocating cutter, work-feeding. Cl. 164-49.
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Roller-feed, Machines, roller. Cl. 91-50.
Roller-feed, Machines, skiving and splitting, fixed knife. Cl. 69-13+.
Roller-feed, Machines, strip, severing, reciprocating cutter. Cl. 216-25+.
Roller-feed, Planing, soft metal. Cl. 90-28.
Roller-feed, Punching, machines, feeding and punching. Cl. 164-89.
Roller-feed, Reciprocating-saw machines. Cl. 143-84.
Roller-feed, Shaving, fixed knife. Cl. 144-158.
Roller-feed, Shaving, knife pair. Cl. 144-161.
Roller-feed, Shingle-machines. Cl. 143-12.
Roller-feed, Slicers. Cl. 144-181.
Roller-feed, Straw-cutters, pivoted knife. Cl. 146-22.
Roller-feed, Straw-cutters, rotary wheel. Cl. 146-26.
Roller-feed, Straw-cutters, single cylinder. Cl. 146-29.
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Roller, Fence-barbs, cutters and dies. Cl. 164-9.
Roller, Fenders. Cl. 114-220.
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Roller-fountain, Inkers, fountains. Cl. 101-367.
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Roller-fountain, Printing members and inkers, rolling-contact printing member, roller-inker, fountain. Cl. 101-331.
Roller-frame: *See* Adjustable. Cl. 56.
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Roller-inker, Bed-and-platen machines, oscillating, interrupter. Cl. 101-309.
Roller-inker, Bed-and-platen machines, web, reciprocating bed. Cl. 101-295.
Roller-inker, Multicolor, bed-and-platen machines, web, reciprocating bed. Cl. 101-199.
Roller-inker, Printing members and inkers, rolling-contact printing member. Cl. 101-329+.
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Roller-inker with web-wiper, Intaglio, bed-and-cylinder machines, circulating bed. Cl. 101-160.
Roller-inker with web-wiper, Intaglio, bed and platen. Cl. 101-165.
Roller-inker with wiper, Intaglio, bed-and-cylinder machines. Cl. 101-161+.
Roller, Inkers. Cl. 101-348+.
Roller-jaw, Wrenches, pivoted inner jaw, pin-fulcrum. Cl. 81-95+.
Roller jaws: *See* Ball or, Cl. 279.
Roller-knife, Cutting, machines, traveling cutter-carriage. Cl. 164-77.

Roller, Lacing devices, studs. Cl. 24-149.
Roller, Lubricators. Cl. 184-101.
Roller, Machines. Cl. 91-48+.
Roller, Machines, storage-magazine, article-support. Cl. 216-60.
Roller mechanism, Copying. Cl. 100-62.
Roller, Mixers, kneaders, and beaters. Cl. 107-34.
Roller, Multicolor, inkers. Cl. 101-205+.
Roller, Punching, machines. Cl. 164-99+.
Roller, Saw-making, stretching. Cl. 76-27.
Roller, Saw-table gages. Cl. 143-173.
Roller, Seaming-machines, compressing. Cl. 113-58.
Roller-shelves, Bookcases. Cl. 45-56.
Roller, Skates. Cl. 46-51.
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Roller structure. Cl. 91-67.8.
Roller, Tank-feed, combined machines, dampening and press-copying. Cl. 91-13.6.
Roller, Tension devices, clamp. Cl. 242-151+.
Roller-track, Sledways. Cl. 104-135.
Roller, Trucks, bogie, lateral-motion bolster. Cl. 105-186.
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Roller with fountain, Bed-and-platen machines, inker. Cl. 101-326.
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Rollers, Apparatus, rammers. Cl. 94-50.
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Rollers, Machines, affixing-magazine, moving. Cl. 216-37.
Rollers, Molding devices, casting. Cl. 18-29.
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Rollers, Traction, cables, grippers. Cl. 104-229+.
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Rolling, Carriers. Cl. 186-31.
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Rolling contact, Area-integrators. Cl. 33-124.
Rolling contact, Distance. Cl. 33-141+.
Rolling contact, Distance, fabric and cord. Cl. 33-129+.
Rolling contact, Embossing or penetrating, special-article machines. Cl. 101-5+.
Rolling-contact machines. Cl. 101-212+.
Rolling-contact machines, Embossing or penetrating. Cl. 101-22+.
Rolling-contact printing member, Printing members and inkers. Cl. 101-328+.
Rolling contact, Printing members. Cl. 101-375+.
Rolling, Cultivators. Cl. 97-38.
Rolling curtain, Backgrounds. Cl. 95-84.
Rolling detent, Couplings. Cl. 213-54.
Rolling hollow bodies, Die-shaping. Cl. 113-41.
Rolling, Horseshoe-making, blanks and bars. Cl. 59-43+.
Rolling, Kinesitherapy, appliances with applicators having specific movement. Cl. 128-57+.
Rolling, Molding. Cl. 49-33+.
Rolling, Molding apparatus. Cl. 107-10+.
Rolling, Molding devices. Cl. 18-9+.
Rolling or sliding, Oscillating. Cl. 155-57.
Rolling pattern, Molding apparatus. Cl. 22-22.
Rolling-pins, Implements. Cl. 107-50.
Rolling, Sails and rigging, sails, reefing and furling. Cl. 114-107.
Rolling, Sails and rigging, sails, reefing and furling, fore-and-aft sails. Cl. 114-106.
Rolling, Special car-bodies, freight. Cl. 105-356.
Rolling, Special car-bodies, passenger. Cl. 105-330.
Rolling, Special, surgical and invalid type. Cl. 155-30.
Rolling-stock: *See* Railway. Cl. 105.
Rolling, Straight-edge type, rules and rulers, parallel. Cl. 33-109.
Rolling table: *See* Moving. Cl. 131.
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Rolling tilt, Special car-bodies, dumping, tilting body. Cl. 105-264+.
Rolling, Welding. Cl. 78-90.
Rolling, Welding, tubes. Cl. 78-87+.
Rolling, Welding, tubes, cross-weld. Cl. 78-85.
Rolling, Window-screens. Cl. 156-39.
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Rolls and reels, Packages. Cl. 206-59.
Rolls and watermarking devices: *See* Dandy. Cl. 92.
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Rolls, Feed and presser mechanisms. Cl. 144-246+.
Rolls, Finishing calenders. Cl. 92-77.
Rolls, Gages, collocating, machine parts. Cl. 33-182.
Rolls or spools, Packages, ribbons, braids, and trimmings. Cl. 206-52+.
Rolls, Special machines, with metal, immersion, work-conveying. Cl. 91-12.7.
Rolls, Wire-straightening. Cl. 140-148.
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Roof: *See* Water. Cl. 122.
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Roof or cover structure, Tops. Cl. 296-137.
Roof storage, Special car-bodies, passenger, convertible open and closed, vertical sliding panel. Cl. 105-334.
Roofers' carriages, Seaming-machines, compressing and folding. Cl. 113-55.
Roofers' tongs, Seaming-machines, compressing and folding. Cl. 113-56.
Roofing, Fabric coating and uniting, webs. Cl. 154-38+.
Roofing, Fabrics, waterproof. Cl. 154-51.
Roofing-tile, Block-molding machines. Cl. 25-43.
Roofs. Cl. 108.
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Root-puller type, Single-throw lever, special engaging feature. Cl. 254-132.
Rope: *See* Separating. Cl. 28.
Rope-actuated, Collectors, trolley, guards and finders, normally inoperative. Cl. 191-84.
Rope-actuated, Collectors, trolley-retrievers, spring-retracted. Cl. 191-92+.
Rope-brakes. Cl. 227.
Rope-brakes, grip-jaw. Cl. 227-25+.
Rope-carriers, Linear, cable. Cl. 212-117+.
Rope-catch, Linear, cable, load suspension. Cl. 212-106+.
Rope-controllers, Control mechanism, operator-actuated. Cl. 187-44+.
Rope drive, Motor mechanism. Cl. 187-20+.
Rope-grip, Linear, cable, load-suspension. Cl. 212-110+.
Rope-guards, Rigs. Cl. 255-33.
Rope, hoist-rope traverse: *See* Draft. Cl. 212.
Rope holders: *See* Cord and, Cl. 24.
Rope-knives, Rigs. Cl. 255-34.
Rope machines: *See* Cord and, Cl. 28.
Rope-protectors, Collectors, trolley. Cl. 191-71.
Rope-retracted, Collectors, trolley, guards and finders, normally operative. Cl. 191-79+.
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Rotary. Cl. 122-11.
Rotary. Cl. 123-8+.
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Rotary. Cl. 253-99+.
Rotary. Cl. 293-17+.
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Rotary: *See* Sliding and, Cl. 202.
Rotary abutment, Non-reciprocating piston, rotary. Cl. 121-71+.
Rotary agitator: *See* Horizontal. Cl. 257.
Rotary and bed-and-cylinder machines, Multicolor. Cl. 101-173.
Rotary and bed and cylinder, Rolling-contact machines. Cl. 101-214+.
Rotary and cam, Periodic, combined. Cl. 200-21+.
Rotary and chisel, Circular section, cutters. Cl. 142-22.
Rotary and reciprocating stirrer, With agitating or conveying. Cl. 233-6.
Rotary and sliding closures, Key-holders. Cl. 59-99.
Rotary, Angular, pivoted bender, bed-clamped work. Cl. 153-19.
Rotary, Angular, reciprocating bender, bed-clamped work. Cl. 153-26.
Rotary annular gate, Rotary, center supply, single shaft, angular vane. Cl. 253-170.
Rotary annular gate, Rotary, end supply, single shaft, angular vane. Cl. 253-156.
Rotary annular gate, Rotary, end supply single shaft, jet, plural. Cl. 253-160.
Rotary annular gate, Rotary, peripheral supply, end delivery, angular vane. Cl. 253-123.
Rotary, Apparatus, stills. Cl. 196-12.
Rotary arm, Restraining devices, hitching. Cl. 119-117.
Rotary armature, Electric actuation, motor systems. Cl. 246-240+.
Rotary back and seat, Bedsteads, sofa. Cl. 5-50.
Rotary base, Straight-edge type, base-attached. Cl. 33-78.
Rotary beater, Seed gatherers or strippers, fixed comb. Cl. 56-128+.
Rotary beaters, Grinding-mills. Cl. 83-11.
Rotary bed, Filters. Cl. 210-14.
Rotary, Bells, gong type. Cl. 116-154.
Rotary bending-head, Angular, reciprocating bender, bed-clamped work. Cl. 153-27.
Rotary bit-stocks: *See* Opposite. Cl. 144.
Rotary blank-carrier, Needle-making. Cl. 163-4.
Rotary block, Continuous-rail crossings. Cl. 246-378.
Rotary, Blotters. Cl. 120-26.
Rotary bolts, Chop-graders. Cl. 83-39.
Rotary, Book and music holders, base-supported. Cl. 45-81.
Rotary bottle, Applying wire, bottles and corks. Cl. 140-95.
Rotary, Bottle-stoppers, pivoted, locking, cam. Cl. 215-39.
Rotary, Bottle-stoppers, tube, valve. Cl. 215-57.
Rotary bottom, Generators, cupola. Cl. 48-66.
Rotary bottom, Generators, cupola, water-jacket. Cl. 48-68.
Rotary brakes. Cl. 13-21+.
Rotary, Breech-loading, sliding breech-block, rearward, magazine. Cl. 42-19.
Rotary brush or roller, Lubricators, elevator-guide lubricators. Cl. 184-23.
Rotary brushes, Brush heads and faces. Cl. 15-37.
Rotary, Buildings, jails. Cl. 189-6.
Rotary, Burnishing-tools. Cl. 12-105.

Rotary burs and sinkers. Cl. 66–27.
Rotary-cam actuated, Non-reciprocating piston, rotary, sliding abutment, radially moving. Cl. 121–76.
Rotary cam, Special distributing-valve actuation, transmission-actuated, engine-shaft-actuated gear, cam-gear. Cl. 121–167.
Rotary, Cameras, shutters, pivoted, blade. Cl. 95–61.
Rotary, Cameras, successive plate-section, shifting lens or plate. Cl. 95–38.
Rotary cam-sleeve, Socket type, side detent. Cl. 279–81.
Rotary car on trucks, Amusement. Cl. 104–74+.
Rotary, Car-propulsion systems, pusher. Cl. 101–103.
Rotary carriage, Circular-saw machines. Cl. 143–57.
Rotary carriage, Shingle-machines, tilting table. Cl. 143–15.
Rotary carrier: *See* Endless or, Cl. 214.
Rotary carrier: *See* With endless or, Cl. 214.
Rotary carrier, Acetylene, generators, carbid-fed, measured charges. Cl. 48–48+.
Rotary carrier and drag-line scoop: *See* Endless or, Cl. 214.
Rotary carrier and reciprocating carrier: *See* Endless or, Cl. 153.
Rotary carrier, Articles, work manipulation. Cl. 263–7.
Rotary carrier, Cotton, pickers, rotary or oscillating, spindle. Cl. 56–44+.
Rotary, Casters. Cl. 65–55.
Rotary chamber, Furnaces. Cl. 263–32+.
Rotary chamber, Furnaces, agitating. Cl. 263–22.
Rotary chamber, Furnaces, with gas-heater. Cl. 263–16.
Rotary chamber, With fume-arrester, heating-furnace. Cl. 266–18.
Rotary, Charge-forming devices, oil-feeding. Cl. 123–138.
Rotary chuck, Barrel-head making. Cl. 147–29+.
Rotary chuck, Can-making machines, head-seaming, roller. Cl. 113–20+.
Rotary chuck, Soldering, cans, cap. Cl. 113–33+.
Rotary chuck, Soldering, cans, head-seam. Cl. 113–69+.
Rotary, Circular section, cutter. Cl. 142–40+.
Rotary, Circular section, cutter, chisel, pattern-guide. Cl. 142–39.
Rotary, Circular section, hollow cutter-head, cutter, chisel, radially movable, pattern-guide. Cl. 142–28.
Rotary, Circular section, spiral-grooving cutter. Cl. 142–26.
Rotary closing, With fluent materials, general types, filling and closing. Cl. 226–74.
Rotary, Coal-oil, retorts. Cl. 196–20.
Rotary, Cocks and faucets, compound, reversing. Cl. 137–145+.
Rotary coilers, Barbing, barb-wire feeding. Cl. 140–65.
Rotary coilers, Barbing, barb-wire feeding, four-point barbs. Cl. 140–63.
Rotary, Combined types, with mechanical motor, gravity. Cl. 60–10.
Rotary contact, Code-transmitters. Cl. 178–93+.
Rotary contact, Switches. Cl. 179–169.
Rotary controller, Block-signal systems, automatic, electric, propulsion-current signaling. Cl. 246–82.
Rotary conveyer: *See* Horizontal. Cl. 257.
Rotary conveyer, Agitators and conveyers, horizontal jacketed cylinder. Cl. 257–86.
Rotary conveyers, Delivering. Cl. 271–80+.
Rotary conveyers, Feeding. Cl. 271–51+.
Rotary conveyers to depositors, Delivering. Cl. 271–71.
Rotary conveyers to flies, Delivering. Cl. 271–72.
Rotary conveying agitator: *See* Vertical. Cl. 257.
Rotary cranes. Cl. 212–28+.
Rotary, Crushers and graters. Cl. 146–9.
Rotary, Cultivators. Cl. 97–25+.
Rotary cutter, Crozing staves. Cl. 147–19+.
Rotary cutter, Cutting, machines. Cl. 164–60+.
Rotary cutter, Dressing. Cl. 125–3+.
Rotary cutter, end-thrust, Shaping. Cl. 144–130.
Rotary cutter-head, Crozing and chamfering barrels, clamped barrel. Cl. 147–13.
Rotary cutter-head, Crozing and chamfering barrels, rotating barrel. Cl. 147–15.
Rotary cutter-heads, Sole and heel edge trimmers. Cl. 12–91+.
Rotary cutter, Jointing staves. Cl. 147–27.
Rotary cutter, Millstone-dressing. Cl. 125–28.
Rotary cutter, Mortising. Cl. 144–82+.
Rotary cutter, Planers. Cl. 144–116+.
Rotary cutter, Sole and heel edge trimmers. Cl. 12–88+.
Rotary cutter, Sole and heel edge trimmers, clamped work. Cl. 12–87.
Rotary cutter, Wire-cutting. Cl. 140–146.
Rotary, Cutters. Cl. 29–103+.
Rotary, Cutters. Cl. 144–218+.
Rotary, Cutters. Cl. 146–11.
Rotary cutters, Tenoning, blind-slat. Cl. 144–200.
Rotary cutting-disk, Cutting and conveying. Cl. 56–157.
Rotary, Cutting, machines, traveling cutter-carriage, motor-driven cutter. Cl. 164–76.
Rotary cutting-reel, Cutting and conveying. Cl. 56–158.
Rotary, Cutting-sharpeners. Cl. 76–85.
Rotary cylinder: *See* Horizontal. Cl. 257.
Rotary cylinder, Acetylene, generators, water-feed. Cl. 48–33.
Rotary cylinder, Acetylene, generators, water-feed, holder-operated. Cl. 48–11.
Rotary cylinder, Distributers and feeders. Cl. 10–168.
Rotary cylinder or piston, Tool, for rotary tools. Cl. 121–34.
Rotary cylinder, Straw-cutters, cutter and bed. Cl. 146–18.
Rotary cylinders, Apparatus. Cl. 149–14.
Rotary dasher, Fluid distribution, pumping, gas-inlet, churn type. Cl. 261–32.
Rotary dasher, Mixers, kneaders, and beaters. Cl. 107–36+.
Rotary die-block, Horseshoe-making, combined machines, bending and shaping. Cl. 59–54.
Rotary die-block, Horseshoe-making, combined machines, bending, shaping, punching, and creasing. Cl. 59–47+.
Rotary die-block, Horseshoe-making, combined machines, cutting, bending, shaping. Cl. 59–51.
Rotary die-block, Horseshoe-making, combined machines, cutting, bending, shaping, punching, and creasing. Cl. 59–42+.
Rotary die, Cutting apparatus. Cl. 107–23.
Rotary digesters, Stock treatment, digestive. Cl. 92–18.
Rotary, Discharging. Cl. 249–19+.
Rotary disk. Cl. 34–32.
Rotary disk. Cl. 251–84+.
Rotary disk: *See* All. Cl. 56.
Rotary disk: *See* Inclined. Cl. 144.
Rotary disk, Distributers and feeders. Cl. 10–169.
Rotary disk knife, Machines, skiving and splitting. Cl. 69–16.
Rotary disk, Slicers. Cl. 144–176.
Rotary, Display-racks. Cl. 211–20+.
Rotary, Display-racks, sample-sheet. Cl. 211–23.
Rotary distributer, Systems, multiplex. Cl. 178–52+.
Rotary distributer, Systems, transmitters. Cl. 177–381.
Rotary distributing-valve, Lubricators, force-feed, pumps. Cl. 184–35.
Rotary double piston. Cl. 103–44.
Rotary drum: *See* Vertical. Cl. 257.
Rotary-drum carrier, Can-making machines, head feeding and applying, body-feeding. Cl. 113–28.
Rotary drum, Mixers. Cl. 48–187+.
Rotary drum, Sanders, mold. Cl. 25–117.
Rotary drums, horizontal axis, Ore and coal, separators, washers. Cl. 83–86.
Rotary earthworking elements. Cl. 97–62+.
Rotary eccentric-cam sleeve, Socket type, radially-reciprocating jaws, moving-cam actuator. Cl. 279–71+.
Rotary electrode, Igniters, sparkers, make and break. Cl. 123–161.
Rotary electrodes: *See* Inclined and, Cl. 176.
Rotary element, Transmission of power, synchronization. Cl. 172–293.
Rotary, Elements, take-ups. Cl. 112–248.
Rotary, Embossing or penetrating, removable font-carrier. Cl. 197–6.4+.
Rotary, Embossing or penetrating, rolling-contact machines. Cl. 101–23+.
Rotary, Embossing or penetrating, special-article machines, rolling contact. Cl. 101–6.
Rotary end supply, Gas-operated, atmospheric. Cl. 253–38.
Rotary engagement, Duplicate end, longitudinal port, integral hook. Cl. 285–67.
Rotary engagement, Pipe and socket. Cl. 285–175+.
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Rotary feature, Charging or discharging apparatus, furnace type, gravity type, bell and hopper. Cl. 214–37.
Rotary feed, Chain-making, welding. Cl. 59–32.
Rotary feed, Lock-releasing, gravity, forwardly-turning released part, article-delivery. Cl. 194–26.
Rotary, Feeding, separators. Cl. 271–36+.
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Rotary, Feeding, separators, pneumatic. Cl. 271–27+.
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Rotary field and armature, Electric control. Cl. 290–39.
Rotary field and armature, Electric control, traction. Cl. 290–29.
Rotary field and armature, Electric control, traction, electric traction-motor, as starter, as generator. Cl. 290–20.
Rotary field and armature, Electric control, traction, electric traction-motor, with generator. Cl. 290–15.
Rotary field and armature, Electric control, traction, electric traction-motor, with starting and generating dynamo. Cl. 290–12.
Rotary field and armature, Electric control, traction, starting and generating dynamo. Cl. 290–23+.
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Rotary, Fluid-piston, injectors and aspirators. Cl. 230–14.
Rotary former, Pottery-machines, jiggers. Cl. 25–26.
Rotary former, Staple-making, cutting and bending. Cl. 59–76.
Rotary, Fuel-feeders, spreader. Cl. 110–115.
Rotary, Furnace structure, progressive feed, grate. Cl. 110–35+.
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Rotary gaining-cutters, Tenoning. Cl. 144–203+.
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Rotary grate, vertical axis, Furnace structure, wet fuel, garbage and sewage. Cl. 110–13.
Rotary, grates. Cl. 126–181+.
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Rotary, Grooming devices, currycombs. Cl. 119–91.
Rotary, Hair-curlers. Cl. 132–20.
Rotary handle, Pipe and rod cutters, traveling, external, thread-feed. Cl. 81–192.
Rotary, Harrows. Cl. 55–13.
Rotary, Harrows, wheel. Cl. 55–20.
Rotary head, Excavators, hydraulic. Cl. 37–47.
Rotary heads, Couplings. Cl. 213–53.
Rotary hearth, Bakers' ovens, charging and removing devices. Cl. 107–60.
Rotary heel-support; *See* Multiple. Cl. 1.
Rotary, Heels. Cl. 36–39.
Rotary, Hopper-discharging. Cl. 221–130+.
Rotary hopper, Distributers and feeders. Cl. 10–170.
Rotary horizontal, Cylinder, internal. Cl. 34–5.
Rotary, Horse-rakes, side delivery. Cl. 56–377.
Rotary hull, Buovant propeller. Cl. 115–20.
Rotary, Hydraulic type, fluid transmission. Cl. 60–53+.
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Rotary, Indicators. Cl. 116–129.
Rotary, Indicators, hand-set. Cl. 116–133.
Rotary internal tank: *See* Horizontal. Cl. 257.
Rotary, Kilns. Cl. 222–7.
Rotary, Kinesitherapy, appliances with applicators having specific movement. Cl. 128–56.
Rotary lateral bill, Knotters. Cl. 289–5+.
Rotary levelers, Charging or discharging apparatus, furnace type. Cl. 214–22.
Rotary locking-shaft: *See* Transverse. Cl. 246.
Rotary locking-sleeve. Cl. 285–191.
Rotary locking-sleeve, Pipe and socket. Cl. 285–180.
Rotary locking-sleeve, Pipe and socket, rotary engagement, lugged pipe. Cl. 285–177.
Rotary longitudinal connecting-shaft, Vehicle-energy actuation, switches, automatic track mechanism. Cl. 246–331.

Rotary, Lubricators, forced-feed, conveyors, bucket. Cl. 184–63.
Rotary, Lubricators, forced-feed, pumps. Cl. 184–31.
Rotary machine, Multicolor, inkers, roller. Cl. 101–206+.
Rotary machines, Burnishing. Cl. 95–105+.
Rotary machines, Fabric-making. Cl. 140–4.
Rotary machines, Inkers, roller. Cl. 101–349+.
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Rotary machines, Intaglio, multicolor. Cl. 101–152.
Rotary machines, Multicolor. Cl. 101–174+.
Rotary machines, Planographic. Cl. 101–141+.
Rotary machines, Planographic, copying apparatus. Cl. 101–132.
Rotary machines, Planographic, multicolor. Cl. 101–136+.
Rotary machines, Selective or progressive. Cl. 101–91+.
Rotary machines, Selective or progressive, numbering. Cl. 101–76+.
Rotary machines, Stenciling. Cl. 101–116+.
Rotary, Machines, storage-magazine, article-support. Cl. 216–59.
Rotary machines with roller-inker and fountain, Selective or progressive, addressing-machines, stencil. Cl. 101–49.
Rotary mandrel or billet, Forging, billet-piercing. Cl. 78–11.
Rotary-marker operator, Drilling, hill-planting machines, frame and planting-element arrangement, main and auxiliary frame. Cl. 111–23.
Rotary markers, Scribers, straight line, ink. Cl. 33–37+.
Rotary matrix-carrier, Integral line, non-releasing-matrix machines. Cl. 199–5.
Rotary-matrix-carrier machines, Separate type. Cl. 199–73+.
Rotary, Meat-tenderers. Cl. 17–29.
Rotary, Meters. Cl. 73–37.
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Rotary mold-support, Molding devices, presses. Cl. 18–20+.
Rotary, Motion-picture apparatus, picture-strip, intermittent feed, intermittent-grip type. Cl. 88–18.5.
Rotary movement, Pencil-sharpeners, implements. Cl. 120–92+.
Rotary multiple dies, Bolt and rivet making. Cl. 10–13.
Rotary multiple dies, Nut and washer making, forging. Cl. 10–77.
Rotary nail-carrier, Machines, shoe, wire-nail forming and driving. Cl. 1–31.
Rotary, Non-reciprocating piston. Cl. 121–67+.
Rotary, Non-stop valves. Cl. 251–149.
Rotary, Nozzles, valved. Cl. 299–151+.
Rotary or oscillating, Cotton, pickers. Cl. 56–40+.
Rotary packer, With fluent materials, special types, uniform density, receding receptacle-support. Cl. 226–25.
Rotary pans and stirrers, vertical axis, Ore and coal, separators, washers. Cl. 83–87.
Rotary, Pattern-section, cam-controlled, cutter. Cl. 142–10.
Rotary, Pattern-section, copying, cutter. Cl. 142–11.
Rotary, Pattern-section, cutter. Cl. 142–9.
Rotary, Periodic. Cl. 200–28+.
Rotary, Periodic, multiple contact. Cl. 200–24+.
Rotary picture-disk, Motion-picture apparatus. Cl. 88–18.8.
Rotary, Pipe and rod cutters, traveling, internal. Cl. 81–194+.
Rotary, Pipe expanders and flangers, traveling. Cl. 153–81+.
Rotary piston and valve, Lubricators, force-feed, pumps. Cl. 184–33.
Rotary, Plate. Cl. 197–59.
Rotary plate-carrier, Selective or progressive, addressing-machines, bed and platen. Cl. 101–62.
Rotary, Plows, steam. Cl. 97–71+.
Rotary plug. Cl. 251–91+.
Rotary plug or disk, Nozzles, multiple outlet, valved, combined central and annular outlets. Cl. 299–147.
Rotary plunger, Die-expressing, plunger and mandrel, integral. Cl. 207–8.
Rotary, Powder-cans, cut-offs. Cl. 221–64.
Rotary printer and web-roll with roller-inker, Rolling-contact machines. Cl. 101–213.
Rotary pumps. Cl. 253–176+.
Rotary punch and creaser, Horseshoe-making, combined machines, bending, shaping, punching, and creasing, rotary die-block. Cl. 59–48.
Rotary punch and creaser, Horseshoe-making, combined machines, cutting, bending, shaping, punching, and creasing, rotary die-block. Cl. 59–43.
Rotary, Rail. Cl. 188–75.
Rotary receiver, Wind-motors, receiving-chamber. Cl. 170–5.
Rotary reciprocating piston. Cl. 123–45.
Rotary, Refrigerators, ice, central ice-box. Cl. 62–59.
Rotary, Refrigerators, ice, receptacle, bottle. Cl. 62–77.
Rotary, Refrigerators, ice, top ice-box. Cl. 62–49.
Rotary release, Alarms, burglar, closure-operated, door and window, detonating, reciprocating hammer. Cl. 116–89.
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Rotary retort, Furnace structure, wet fuel, garbage and sewage. Cl. 110–14.
Rotary, Retorts. Cl. 48–121.
Rotary, Retorts, lids. Cl. 48–125.
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Rotary, Road or track clearers, rail-cleaners. Cl. 37–65.
Rotary, Rock-drilling machines. Cl. 255–46+.
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Rotary, Rolling-contact machines. Cl. 101–216+.
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Rotary, Sand-feeders. Cl. 291–32.
Rotary saw, Barrel-head making. Cl. 147–38.
Rotary, Sawing. Cl. 125–13+.
Rotary scatterer, Scattering. Cl. 275–15.
Rotary scatterer, Scattering, manually-operated implements. Cl. 275–12.
Rotary scraper: *See* Vertical. Cl. 257.
Rotary screens, Grain-separators. Cl. 130–16.
Rotary, Screw-threading, machines, chasing-cutter. Cl. 10–102.
Rotary, Scribers, straight line, ink, traveling markers. Cl. 33–36.
Rotary scribing-tool, Barrel-head making, fixed chuck. Cl. 147–37.
Rotary seaming-tool, Can-making machines, head-seaming, roller, stationary chuck. Cl. 113–24+.
Rotary, Selective or progressive, addressing-machines. Cl. 101–52+.
Rotary, Selective or progressive, numbering, measuring-machines. Cl. 101–74+.
Rotary set, Saw-making, setting. Cl. 76–59.
Rotary shaft and gearing, Wheeled, running-gear, occupant-steered, stub-axle, link-connected. Cl. 280–96.
Rotary-shaft couplings. Cl. 64–89+.
Rotary shaft or spindle, Axles. Cl. 21–153.
Rotary shaft, Shutter-workers. Cl. 268–14.
Rotary shafts: *See* Longitudinal. Cl. 104.
Rotary shafts, Train-operated. Cl. 188–62.
Rotary shell-feed, Ammunition-loading, loading and shell-closing. Cl. 86–27.
Rotary, Single coupling, duplicate end, transverse port, internal valve. Cl. 284–9.
Rotary single piston. Cl. 103–43.
Rotary-sleeve actuated, Pivoted detent. Cl. 285–189.
Rotary sleeve, Duplicate end, longitudinal port. Cl. 285–66.
Rotary slide-carrier, Projecting apparatus, magic lanterns. Cl. 88–27.
Rotary, Slivering, scoring-plane. Cl. 144–188.
Rotary, Soda-water apparatus, syrup-cocks. Cl. 225–34.
Rotary, Solid piston. Cl. 230–30+.
Rotary, Special-article machines. Cl. 101–36+.
Rotary, Special machines, sewing hats, work-supports, machines. Cl. 112–14.
Rotary stirrer, filters, centrifugal, agitating or conveying. Cl. 210–30.
Rotary stirrer, Furnaces, agitating. Cl. 263–25+.
Rotary stirrer, With agitating or conveying. Cl. 233–7+.
Rotary stirrers, Powder-cans. Cl. 221–66.
Rotary, Stitch-forming, feeding. Cl. 112–214.
Rotary, Stitch-forming, feeding, adjustment. Cl. 112–211.
Rotary, Stitch-forming, shuttle type. Cl. 112–189+.
Rotary, Stopper-extractors, screw. Cl. 65–50.
Rotary, Stove-shelves, oven shelf or rack. Cl. 126–338.
Rotary striker, Bells, gong type, pivoted striker, multiple stroke. Cl. 116–158+.
Rotary striker, Horns and whistles, diaphragm-horns. Cl. 116–143+.
Rotary support, Wind-motors, rotary, parallel axis, frame construction. Cl. 170–77+.
Rotary support, Wind-motors, rotary, transverse axis. Cl. 170–11.
Rotary-swab applied, Lubricators, cylinder-lubricators. Cl. 184–20.
Rotary table-carrier, Can-making machines, head feeding and applying, body-feeding. Cl. 113–29.
Rotary table-carrier, Soldering, cans, cap, rotary chuck, stationary tool. Cl. 113–98.
Rotary table-carrier, Soldering, cans, cap, rotary tool. Cl. 113–89.
Rotary table-carrier, soldering, cans, head-seam, rotary chuck. Cl. 113–75+.
Rotary table-carrier, Soldering, cans, side seam. Cl. 113–64+.
Rotary, Tide or wave. Cl. 253–14.
Rotary, Tie-plates. Cl. 238–305.
Rotary tool, Burnishing-machines. Cl. 12–77.
Rotary tool-driving. Cl. 253–2+.
Rotary tool-holder, Combined machines, turret, tool-turret. Cl. 29–40.
Rotary tool, Implements. Cl. 262–19+.
Rotary tool, Rigs. Cl. 255–19+.
Rotary tool, saw-making, dressing and jointing. Cl. 76–50.
Rotary tool, Soldering, cans, can. Cl. 113–87+.
Rotary tool-spindle, Combined machines, multiple-tool holder, axial tool and transversely-movable slide-rest. Cl. 29–53.
Rotary tool-spindle, Combined machines, multiple-tool holder, longitudinally and transversely movable. Cl. 29–55.
Rotary tool, With fluent materials, general types, closing, closure applying and conforming. Cl. 226–87.
Rotary tools: *See* For, Cl. 121.
Rotary tools, Dressing, rotary cutter. Cl. 125–5.
Rotary-tooth feed, Machines, strip, severing, reciprocating cutter. Cl. 216–27.
Rotary, Torpedo mechanism, magazine. Cl. 246–214.
Rotary, track-guard. Cl. 256–16.
Rotary, Transmitters, granular, electrode. Cl. 179–129.
Rotary, transverse axis, Tedders. Cl. 56–372.
Rotary trap-chamber, Predetermined bulk. Cl. 221.
Rotary, Traversing machines, with scatterer. Cl. 275–8.
Rotary, Treating molten material, converters. Cl. 266–36.
Rotary-tube agitator: *See* Horizontal. Cl. 257.
Rotary-tube agitator: *See* Vertical. Cl. 257.
Rotary tubular cutter, Special-work machines, single or combined, disk-cutting. Cl. 144–23.
Rotary tubular knife, Machines, skiving and splitting. Cl. 69–9.5.
Rotary, Tunnel-excavating, implements. Cl. 262–7.
Rotary, Twine-holders, take-ups. Cl. 242–145.
Rotary valve: *See* With, Cl. 121.
Rotary, Valve actuation, periodic. Cl. 137–146.
Rotary, Valve actuation, speed-controlled, periodic. Cl. 137–142.
Rotary, Valve-body operated. Cl. 251–9.
Rotary valve, Soda-water apparatus, faucets, foam. Cl. 225–25.
Rotary valve, Special distributing-valve actuation, transmission-actuated, engine-shaft-actuated gear. Cl. 121–179.
Rotary, Valves. Cl. 123–190.
Rotary, vertical axis, Shockers, automatic feed, vertical position. Cl. 56–411+.
Rotary, vertical axis, Shockers, vertical position. Cl. 56–426.
Rotary, vertical axis, Train-despatching, station, block, or train-order signals. Cl. 246–17.
Rotary, War-ships, turret. Cl. 114–8.
Rotary, Water-motors. Cl. 170–97+.
Rotary, Water-operated. Cl. 253–22+.
Rotary wheel, Straw-cutters. Cl. 146.
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Rotary, Wire, multiple die. Cl. 205–15.
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Rotary work and cutter, Sole-machines, blank-rounding, clamped work. Cl. 12–26.

Rotary work-carrier, Shaping. Cl. 144-154.
Rotary work-holder, Capping nails and screws. Cl. 10-158.
Rotary work-holder, Nail-making, cut nails, horseshoe-nails, finishing. Cl. 10-39.
Rotary work-holder, Nail-making, wire nails. Cl. 10-52.
Rotary work-holder, Nail-making, wrought nails, horseshoe-nails. Cl. 10-69.
Rotary work-holder, Nail-making, wrought nails, spikes. Cl. 10-60.
Rotary work-holder, Screw-making, head-nicking. Cl. 10-6.
Rotary work-mandrel, Cutting, machines, rotary cutter. Cl. 164-69.
Rotary, Work-manipulating, trimmers. Cl. 112-124.
Rotary work, Milling, pattern-controlled. Cl. 90-13.9.
Rotary work, Milling, pattern-controlled, reproducing. Cl. 90-13.6+.
Rotary work, Milling, pattern-controlled, reproducing, duplicating. Cl. 90-13.3+.
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Rotary, Wrenches, attachments and adjuncts, cutters. Cl. 81-182.
Rotatable body, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-349.
Rotatable body, Connectors, quick-detachable, switch, lamp-socket type, multiple throw. Cl. 173-348.
Rotatable, Calendars. Cl. 40-111+.
Rotatable caps, Keyboards, key caps and stems. Cl. 197-104.
Rotatable, Changeable exhibitors. Cl. 40-66+.
Rotatable, Changeable exhibitors, axle-operated. Cl. 40-44.
Rotatable, Changeable exhibitors, fluid-operated. Cl. 40-39+.
Rotatable, Changeable exhibitors, motor-operated. Cl. 40-33+.
Rotatable, Changeable exhibitors, obstacle-operated. Cl. 40-49.
Rotatable, Closures and chutes, coin-trap, pivoted. Cl. 232-60+.
Rotatable cover, Lubricators, oil-cup closures. Cl. 184-92+.
Rotatable deflector, Deflection. Cl. 183-77+.
Rotatable die-block, Screw-threading, implements, dies, multiple. Cl. 10-115.
Rotatable, Filtration, reticulated screen, movable. Cl. 183-63+.
Rotatable graspers, Poles, globe-manipulators. Cl. 294-21.
Rotatable head, Case-shifts, type-bar. Cl. 197-76.
Rotatable key and contact-block, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-350+.
Rotatable key and facial contact, Connectors, quick-detachable, switch, lamp-socket type. Cl. 173-352.
Rotatable, Lanterns, signal. Cl. 240-24.
Rotatable needle-bar: *See* With, Cl. 112.
Rotatable, Restraining devices, stanchions. Cl. 119-149.
Rotatable series, Light-ray type, gun-sights, variable. Cl 83-54.
Rotatable shaft, Restraining devices, hitching, releasers, Cl. 119-116.
Rotatable, Target-traps, pivoted throwing-arm. Cl. 124-6.
Rotatable valve, Lubricators, gravity-feed, automatic cut-off. Cl. 184-71+.
Rotatable, Vehicle, motion and direction. Cl. 116-65+.
Rotatable, Vehicle, motion and direction, window-exhibited sign or shutter. Cl. 116-63.
Rotatable washer, Locked nut, side-lock. Cl. 151-45+.
Rotatably supported. Cl. 122-12.
Rotating. Cl. 298-10.
Rotating: *See* Combined reciprocating and, Cl. 251.
Rotating: *See* Reciprocating and, Cl. 277.
Rotating: *See* Reversely. Cl. 253.
Rotating abutment, Rotary. Cl. 123-13.
Rotating, Amusement, helical. Cl. 104-57.
Rotating and cleansing, Tool. Cl. 121-6.
Rotating and feeding, Tool. Cl. 121-5.
Rotating and tilting. Cl. 298-9.
Rotating barrel, Crozing and chamfering barrels. Cl. 145-14+.
Rotating bundle, Compressing and binding, band-tucker type, straw band, band-forming. Cl. 56-461.
Rotating burners, Paint, pigments, lampblack. Cl. 134-63.
Rotating carriers, Fluid-treating apparatus. Cl. 95-93.
Rotating collector-plate, Paint, pigments, lampblack. Cl. 134-64.
Rotating, Contact devices. Cl. 261-83+.
Rotating contact, Snap. Cl. 200-63+.
Rotating core-bar, Molding apparatus, core-making. Cl. 22-12.
Rotating cutter and pencil, Pencil-sharpeners, machines. Cl. 120-95.
Rotating cutter, Gear-cutting. Cl. 90-3+.
Rotating cutter, Pencil-sharpeners, machines. Cl. 120-96.
Rotating, Cutters. Cl. 25-109+.
Rotating, Cutting and conveying, reciprocating-cutter type, self-raking mechanism. Cl. 56-167+.
Rotating cutting-disk, Cutting, cutter members. Cl. 56-295.
Rotating-cutting-disk type, Cutting. Cl. 56-255+.
Rotating cutting-reel, Cutting and catching. Cl. 56-198+.
Rotating cutting-reel, Cutting, cutter members. Cl. 56-294.
Rotating cutting-reel, Cutting, railroad. Cl. 56-231.
Rotating cutting-reel, Gang. Cl. 56-7.
Rotating cutting-reel, Motor, cutting and conveying. Cl. 56-24.
Rotating cutting-reel, Motor, cutting only. Cl. 56-26.
Rotating-cutting-reel type, Cutting. Cl. 56-249+.
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Rotating cylinder, Paint, pigments, lampblack. Cl. 134-65.
Rotating, Dependent-motion type, multi-conduit. Cl. 277-4.
Rotating, Dependent-motion type, multi-way, stop. Cl. 277-19.
Rotating, Dependent-motion type, serial, stop, Cl. 277-39+.
Rotating discharging member, Ambulant discharge and supply. Cl. 299-38.
Rotating, Discharging, receptacle fixed, stirrer. Cl. 259-40+.
Rotating, Discharging, receptacle moving. Cl. 259-30+.
Rotating, Discharging, receptacle moving, rotating, stirrer. Cl. 259-32+.
Rotating disk or drum, Non-ambulant discharge and supply, moving discharging member. Cl. 299-63.
Rotating dispenser, Drilling, frame and planting-element arrangement, rigid, single row. Cl. 111-77+.
Rotating, Doors. Cl. 20-18.
Rotating, feeding, and cleansing, Tool. Cl. 121-4.
Rotating, Feeding, receptacle fixed, stirrer. Cl. 259-21+.
Rotating, Feeding, receptacle moving. Cl. 259-14+.
Rotating gases, Contact devices. Cl. 261-79.
Rotating gear, Car brakes and catches, driven catch devices. Cl. 187-78.
Rotating head, Buttons and fasteners, separable, spring. Cl. 24-109.
Rotating head, Separable fasteners, head and socket, axial closures. Cl. 24-221.
Rotating, Independent-motion type, multi-way, stop. Cl. 277-59.
Rotating, Independent-motion type, serial, stop. Cl. 277-69.
Rotating knife, Tobacco-cutters. Cl. 131-35.
Rotating looper, Stitch-forming, chain or double chain. Cl. 112-201.
Rotating, Mechanical. Cl. 200-155+.
Rotating mechanism, Rock-drilling machines, impact. Cl. 255-43+.
Rotating, Mixers, kneaders, and beaters, moving receptacle. Cl. 107-33.
Rotating, Molding apparatus, pipes vertical, compacting pattern. Cl. 22-18.
Rotating, Moving cylinder. Cl. 121-63+.
Rotating, Nozzles, deflectors, spray-fluid actuated. Cl. 299-126.
Rotating object, Embossing or penetrating, special-article machines, rolling contact. Cl. 101-7.
Rotating object, special-article machines. Cl. 101-38+.
Rotating, Receptacle fixed, stirrer. Cl. 259-102+.
Rotating, Receptacle moving. Cl. 259-81+.
Rotating, Receptacle moving, oscillating, stirrer. Cl. 259-78.
Rotating, Receptacle moving, rotating, stirrer. Cl. 259-84+.
Rotating, Receptacle moving, translating, stirrer. Cl. 259-93.
Rotating, Receptacle plural, fixed, stirrer. Cl. 259-64+.
Rotating, Receptacle plural, moving. Cl. 259-57+.
Rotating reel, horizontal axis, Standing-grain gatherers. Cl. 56-220+.
Rotating ring, Wrenches, pivoted side jaw, bevel-closing. Cl. 81-115.
Rotating rings, Spinning elements, rings and travelers. Cl. 118-60.
Rotating shackle, Padlocks. Cl. 70-107.
Rotating shuttle: *See* Oscillating and, Cl. 112.
Rotating side shaft, Bicycle, propulsion, crank and gear. Cl. 208-49.
Rotating side shaft, Four-cycle. Cl. 123-82.
Rotating side shaft, Polycycles, propulsion, crank and gear. Cl. 208-55.
Rotating stirrer, Covers and stirrers. Cl. 259-118+.
Rotating, Stirrers. Cl. 259-129+.
Rotating-table, Casting apparatus, moving mold. Cl. 22-77.
Rotating table, Casting apparatus, pigs. Cl. 22-63.
Rotating table, Molding apparatus. Cl. 22-21.
Rotating table, shifting cutter, Shaping, pattern. Cl. 144-139.
Rotating threaded shank, Wrenches, sliding adjustments, thread. Cl. 81-164.
Rotating, Tool. Cl. 121-7.
Rotating tool, Forging, riveting, machines. Cl. 78-53.
Rotating tool, Saw-making, sharpening and gumming. Cl. 76-37+.
Rotating tools, Apparatus. Cl. 149-15.
Rotating transverse shaft, Four-cycle. Cl. 123-83.
Rotating tumblers, Permutation. Cl. 70-53.
Rotating valve, Four-cycle. Cl. 123-80.
Rotating wheel, Power-driven, mechanical. Cl. 197-18.
Rotating work-holder, Boring, brush. Cl. 144-95.
Rotating work-holder, Milling, stationary cutter-axis. Cl. 90-20.
Rotation: *See* Shaft. Cl. 116.
Rotation axes: *See* Parallel or coaxial cylinder and, Cl. 121.
Rotation controllers: *See* Fluid. Cl. 299.
Rotation-counters. Cl. 235-103+.
Rotor: *See* Double. Cl. 105.
Rotor: *See* Pitman to, Cl. 105.
Rotor: *See* To, Cl. 105.
Rotor: *See* To pitman and, Cl. 105.
Rotor: *See* Wheel. Cl. 105.
Rotor, Non-ambulant discharge and supply, moving discharging member, spray-fluid actuated. Cl. 299-67+.
Rotor on axle, Locomotives, electric. Cl. 105-54+.
Roughened: *See* Abraded and, Cl. 41.
Round, Belts. Cl. 74-66.
Round work, Vises. Cl. 81-19.
Round work, Vises, jaw attachments. Cl. 81-39.
Round work, Wrenches, rigid jaws. Cl. 81-120.
Roundabouts. Cl. 46-27.
Rounding: *See* Blank. Cl. 12.
Rounding and backing. Cl. 11-5.
Rounding, Machines. Cl. 69-6.
Route-locking, Interlocking, electric actuation, electric locking. Cl. 246-134.
Row: *See* Chairs in, Cl. 155.
Row-trimmers: *See* Hedge or plant. Cl. 56.
Rowing-machines. Cl. 208-41.
Rowlocks. Cl. 9-26.
Rows: *See* Plurality of, Cl. 56.
Rubber. Cl. 36-4+.
Rubber: *See* Artificial. Cl. 106.
Rubber: *See* Artificial ivory and hard. Cl. 106.
Rubber: *See* India. Cl. 16.
Rubber: *See* Reciprocating. Cl. 68.
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Sickles, Cutting, cutter members, reciprocating. Cl. 56-299+.
Side: *See* Single-cutter for top or, Cl. 56.
Side action, Transfer mechanism, traveling pawl. Cl. 235-143.
Side and bottom: *See* Coupled. Cl. 105.
Side and bottom, Ties, non-metallic, plastic compound, armored. Cl. 238-98.
Side and end locking means, Galleys. Cl. 276-41.
Side and front gage, Feeding, endless conveyers. Cl. 271-48.
Side and front gages, Feeding. Cl. 271-58.
Side and top, Ties, non-metallic, plastic compound, armored. Cl. 238-99.
Side-attached bit, Cutters, rotary, disk. Cl. 144-235.
Side, Bag-machines, openers. Cl. 93-30.
Side bar, Vehicle, leaf. Cl. 267-39.
Side bars, Rails. Cl. 238-139.
Side board securing devices: *See* Top and, Cl. 296.
Side boards: *See* Pivoted. Cl. 296.
Side-chute bridge, Special car-bodies, dumping, hopper type, longitudinal doors. Cl. 105-252.
Side-clamping plates, Saw-handles, spindle. Cl. 145-110.
Side clips, Rail-joints, base-plate. Cl. 238-217.
Side clutch, Coupled nut and bolt, thread-lock. Cl. 151-25.
Side, Coupled nut and bolt, top stop, positive lock. Cl. 151-29.
Side cut, Cutting, endless cutter. Cl. 56-245.
Side cut, Cutting, oscillating cutter. Cl. 56-248.
Side cut, Implements, endless flexible cutter. Cl. 262-30.
Side cut, Implements, rotary tool. Cl. 262-27.
Side cut, Implements, rotary tool, bar-cutter. Cl. 262-28.
Side cutter: *See* Reciprocating. Cl. 56.
Side cutter, Cutters, rotary, saw, single. Cl. 144-223.
Side cutter, Cutting and catching. Cl. 56-195+.
Side delivery, Horse-rakes. Cl. 56-376+.
Side delivery only, Sliding and tilting. Cl. 298-13.
Side delivery only, Tilting. Cl. 298-18.
Side delivery plow, Excavators, plow and carrier. Cl. 37-48.
Side-delivery rake, Combined rakes and tedders. Cl. 56-366.
Side delivery, Raking and loading, endless carrier. Cl. 56-354+.
Side detent, Socket type. Cl. 279-76+.
Side detent, Socket type, self-grasping, one-way-clutch type. Cl. 279-29+.
Side discharge: *See* Bottom or, Cl. 294.
Side door: *See* Depressed. Cl. 105.
Side-door gondola, Special car-bodies, dumping. Cl. 105-258+.
Side doors, Scows, dumping and unloading, platform. Cl. 114-35.
Side-draft devices: *See* Anti. Cl. 56.
Side draft, Linear, cable, load suspension, rope-grip, variable elevation. Cl. 212-113.
Side draft, Switches, facing, selective. Cl. 246-425.
Side-driving shaft, Bit-stocks, straight. Cl. 145-67.
Side-edge gages, Paper-feeding. Cl. 197-142.
Side extensions, Wheels, follies, spoke connections, spoke-caps. Cl. 21-176.
Side fender. Cl. 293-57.
Side folding, Special car-bodies, freight, stakes. Cl. 105-381.
Side-frame base, Trucks, platform, spring. Cl. 105-213+.
Side frames, Trucks, bogie. Cl. 105-206.
Side gage, Feeding, endless conveyers. Cl. 271-49.
Side gage, Feeding, reciprocating conveyers. Cl. 271-55.
Side gage, Feeding, rotary conveyers. Cl. 271-52.
Side gage, Feeding, separators and conveyers, buckling-separator and endless conveyer. Cl. 271-17.
Side gage, Feeding, separators and conveyers, pneumatic separator. Cl. 271-15.
Side gage, Feeding, separators and conveyers, pneumatic separator, endless conveyer. Cl. 271-13.
Side gages, Feeding. Cl. 271-59.
Side gangway, Platforms. Cl. 105-436.
Side-gripping jaws, Screw-drivers, holding attachments. Cl. 145-52.
Side guards. Cl. 105-439+.
Side guides: *See* With, Cl. 104.
Side guides: *See* With, Cl. 105.
Side hinge, Special car-bodies, freight, convertible deck, sectional. Cl. 105-372.
Side jaw, Wrenches, sliding adjustments, shank-grip. Cl. 81-151.
Side, Liquid fuel, burners, vapor, retort, air-mixing. Cl. 67-49.
Side-lock, Locked nut. Cl. 151-44+.
Side-locked, Coupled nut and bolt, thread-lock, superposed nuts, oppositely threaded. Cl. 151-18.
Side-locking means, Galleys. Cl. 276-42.
Side-lug engaging, Pipe and socket, detent, pivoted. Cl. 285-172.
Side magazine, Fire-tube, vertical. Cl. 122-124.
Side magazine, Water-tube, vertical. Cl. 122-334.
Side-opening, Carriers, sliding. Cl. 243-34.
Side or cross walks, Pavements. Cl. 94-26+.
Side panels: *See* Attached. Cl. 296.
Side panels: *See* Shiftable. Cl. 296.
Side pin, Locked nut, side-lock, longitudinal. Cl. 151-57.
Side pivot: *See* Vertical. Cl. 105.
Side projector. Cl. 293-21+.
Side-reflector type, Arc. Cl. 176-51.
Side, Reflectors. Cl. 240-105.
Side retort, Burners, liquid fuel, retort. Cl. 158-71.
Side, Saddles, riding. Cl. 54-45.
Side, Screw-propeller, multiple screw. Cl. 115-38.
Side-seam compressing, Tube-making. Cl. 113-34.
Side-seam, Soldering, cans. Cl. 113-60+.
Side-seaming: *See* Body-forming and, Cl. 113.
Side-seaming, Can-making machines. Cl. 113-12.
Side sections: *See* Movable. Cl. 105.
Side, Shades. Cl. 240-110.
Side shoes, Disk on axle. Cl. 188-35.
Side slide. Cl. 285-143+.
Side slide, Doors, car, grain. Cl. 20-31.
Side slide, Duplicate end. Cl. 285-60.
Side sockets: *See* End and, Cl. 279.
Side-spout gondola, Special car-bodies, dumping, inclined bottom. Cl. 105-256.
Side spurs, Shoes, fastenings. Cl. 168-21.
Side-supported, Receptacles, match-safes. Cl. 206-30.
Side-swage and mandrel, Nut and washer making, forging. Cl. 10-80.
Side-swage, Nail-making, wrought nails, horseshoe-nails. Cl. 10-68.
Side-swage, Nut and washer making, forging. Cl. 10-79+.
Side-swaging, Bolt and rivet making. Cl. 10-18.
Side-swing, Windows, sliding and swinging sash, separable hinge. Cl. 20-46.
Side-swinging barrel, Breech-loading. Cl. 42-12+.
Side tang, Scythe type, adjustable angle. Cl. 287-5.
Sides, Ties, non-metallic, plastic compound, armored. Cl. 238-100.
Side tilt, Elevator or hoist type, tilting platform, car-handling. Cl. 214-123.
Side tilt, Roadway vehicle loading or unloading, with external coöperating means, vehicle-unloading, tilting track-section. Cl. 214-52.
Side tooth, Transfer mechanism. Cl. 235-140+.
Side-track push-rods, locomotives. Cl. 213-19.
Side walls: *See* Extension. Cl. 105.
Side wings: *See* Foldable. Cl. 293.
Sideboard, Refrigerators, ice. Cl. 62-36.
Sidehill, Platform adjustments. Cl. 56-209.
Sidehill, Plows. Cl. 97-27.
Sides: *See* Displaceable. Cl. 105.
Sides: *See* Removable. Cl. 105.
Sides, Books, covers. Cl. 281-37.
Sidings: *See* Safety. Cl. 246.
Sidewise, Potato-diggers, plow, vibrating screens. Cl. 55-112+.
Sieve movement, Ore and coal, separators, jiggers. Cl. 83-80.
Sifters and screens, Ore and coal. Cl. 83-56+.
Sifting, Ash discharge and collecting, ash-pans. Cl. 126-244.
Sifting-wheels, side delivery, potato-diggers. Cl. 55-56.
Sight-feeds, lubricators. Cl. 184-96+.
Sight, Letter-boxes, signals. Cl. 232-34+.
Sight-line controlled, scribers. Cl. 33-20.
Sight-openings and ventilators, Umbrellas, covers, linings, and cases. Cl. 135-35.
Sights: *See* Gun. Cl. 33.
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Signal: *See* Intermittent. Cl. 58.
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Signal: *See* Variable. Cl. 177.
Signal actuated controllers: *See* Switch or, Cl. 246.
Signal-actuating, Interlocking, manual actuation, switch-stands. Cl. 246-144+.
Signal-box transmission, Systems. Cl. 177-360+.
Signal-box transmission, Systems, thermal control. Cl. 177-357+.
Signal cars: *See* Pilot or, Cl. 246.
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Signal control: *See* Distant. Cl. 246.
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Signal indicators: *See* Switch or, Cl. 246.
Signal, Lanterns. Cl. 240-22+.
Signal or train control: *See* Cab. Cl. 246.
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Signal, Reeling and unreeling, reels, fishing-rod type. Cl. 242–84.2.
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Signal systems: *See* Block. Cl. 246.
Signaling: *See* Code. Cl. 116.
Signaling: *See* Electric. Cl. 177.
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Signals: *See* Three-position. Cl. 246.
Signals: *See* Visual cab. Cl. 246.
Signals and gates, automatic, Vehicle-energy actuation. Cl. 246–292+.
Signals and indicators. Cl. 116.
Signals and indicators. Cl. 243–36.
Signals at box, Systems, signal-box transmission. Cl. 177–373+.
Signals, Draw. Cl. 14–49.
Signals, Fluid-motor actuation. Cl. 246–260.
Signals, Fluid-pressure. Cl. 188–83.
Signals, Letter-boxes. Cl. 232–34+.
Signals, mine-doors, and gates: *See* Electric automatic highway. Cl. 246.
Signals, Ribbon mechanism. Cl. 197–173+.
Signals, Traction, cables, drive and control. Cl. 104–179.
Signature-gatherers, Associating. Cl. 270–54+.
Signs. Cl. 40–125+.
Silent key, Feed mechanism. Cl. 197–83.
Silicates: *See* Soluble. Cl. 106.
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Sills: *See* End. Cl. 105.
Sills: *See* Longitudinal. Cl. 105.
Sills and jambs. Cl. 72–98.
Sills, Weather-strips, hinged. Cl. 20–66.
Silos, Buildings, bins. Cl. 20–1.4.
Silver: *See* Gold and. Cl. 75.
Silver, Electrolysis, aqueous bath. Cl. 204–16.
Simple system, Suspension. 14–20.
Simultaneous, Arc, starting and feeding, multiple arc. Cl. 176–59.
Simultaneous expansion, Multiple cylinder. Cl. 123–53.
Simultaneous exposure, Cameras. Cl. 95–18.
Simultaneous, Platform adjustments, main frame, vertical. Cl. 56–217.
Simultaneous, Platform adjustments, main frame, vertical, segment rack and pinion. Cl. 56–216.
Simultaneous, Systems, signal-box transmission, signals at box. Cl. 177–376.
Simultaneous vertical adjustment, Platform adjustments, main frame, vertically and longitudinally tilting. Cl. 56–213.
Simultaneously, Handle-bars, sectional, adjustable. Cl. 208–121.
Singeing. Cl. 26–14.
Singeing: *See* Scalding. Cl. 17.
Single-acting, Multiple expansion. Cl. 121–112.
Single alarm, Annunciators, electric. Cl. 116–3+.
Single axis. Cl. 235–115+.
Single axis, Calculators. Cl. 235–77+.
Single axis, Calendars, rotatable. Cl. 40–114+.
Single axis, Fare-registers. Cl. 235–40+.
Single, Barbed, strands. Cl. 256–7+.
Single blank, Picture stands and supports. Cl. 40–149+.
Single block, Block-signal systems, automatic, electric, direct current, normally closed, track-circuit. Cl. 246–54+.
Single block, Block-signal systems, automatic, electric, varying-current track-circuit. Cl. 246–40.
Single bow group, Tops, let-down type. Cl. 296–111+.
Single bucket, Gas-operated, rotary, center supply, single shaft. Cl. 253–85.
Single chamber, Furnaces. Cl. 263–40+.
Single chuck, Pearl and composition, drilling, multiple spindle. Cl. 79–13+.
Single chuck, Pearl and composition, drilling, single spindle. Cl. 79–14.
Single compression, Packing. Cl. 100–57.
Single contact, Connectors, quick-detachable. Cl. 173–363.
Single continuous contact, Block-signal systems, automatic, electric, cab signal or train control, train-carried current-supply. Cl. 246–67+.
Single coupling. Cl. 284–4+.
Single, Covers and stirrers, translating stirrer. Cl. 259–124.
Single cutter for top or side, Cutting, hedge or plant-row trimmers. Cl. 56–237.
Single, Cutters, rotary, saw. Cl. 144–223.
Single cylinder, Single axis, cylinder. Cl. 235–118.
Single cylinder, Straw-cutters. Cl. 146.
Single deflected image, Geometrical instruments, fiducial. Cl. 88–2.3+.
Single, Deliverers. Cl. 133–5+.
Single delivery, Receptacles, match-safes. Cl. 206–21+.
Single-direction actuation, Cab signal or train control, train mechanism. Cl. 246–198.
Single-direction actuation, Electric actuation, car-actuated circuit-controllers. Cl. 246–250.
Single direction, Vehicle-energy actuation, signals and gates, automatic, track mechanism. Cl. 246–298.
Single, Discharging. Cl. 249–36+.
Single, Elastic extension devices, compression-spring. Cl. 267–71+.
Single, Elastic extension devices, tension-spring. Cl. 267–74.
Single end engagement, Rock-drilling machines, supports. Cl. 255–52.
Single-faced stitch, Sole-attaching means. Cl. 36–18.
Single feed cut-off, Discharging, single. Cl. 249–52+.
Single feed cut-off, Discharging, single, regulator, intercontrol of feed and discharge. Cl. 249–39.
Single fill and close station, With fluent materials, general types, filling and closing. Cl. 226–77+.
Single fixed pivot, Vehicle-body lifters, swinging side bars. Cl. 254–50.
Single fluid, Igniting devices, gaseous, pilot, pressure-operated. Cl. 67–18.
Single fluid-pressure, Regulators, pressure, throttle. Cl. 103–92+.
Single frame, Bedsteads, wardrobe-bedsteads. Cl. 5–37.
Single, furnace structure, progressive feed, underfeed, progressive-feed grate. Cl. 110–48.
Single, Furnaces, rotary chamber. Cl. 263–33+.
Single gate, Terminals, delivery, pressure. Cl. 243–22.
Single gear, Watches, stem winding and setting, pendant-set, yoke. Cl. 58–72.
Single hand, Single axis, dial and hand. Cl. 235–121.
Single handle, Drawing-shaves. Cl. 145–49.
Single hinge, Bracelets. Cl. 63–7+.
Single impression, Multicolor, bed-and-cylinder machines. Cl. 101–187.
Single impression, Multicolor, bed-and-platen machines. Cl. 101–194+.
Single impression, Multicolor, rotary machines. Cl. 101–175+.
Single impression, Time, workmen's, intermittently-movable record, time-printing wheel, individual record. Cl. 234–46.
Single impression, Time, workmen's, time-operated record, individual record. Cl. 234–50+.
Single-impulse systems. Cl. 186–8+.
Single joint, Clamps, miter. Cl. 144–293.
Single key, Time, watchmen's, time-operated record. Cl. 234–40.
Single leaf, Books, leaves, flat-opening. Cl. 281–41.
Single lever, Forging, tire-upsetting, pivoted clamp. Cl. 78–58.
Single lower transverse drum, Water-tube, rearwardly declined, plural upper transverse drum. Cl. 122–302.
Single, Mixers, kneaders, and beaters, rotary dasher. Cl. 107–38+.
Single, Molds, metal, separable cores. Cl. 22–152.
Single or combined, Special-work machines. Cl. 144–20+.
Single or offset contact, Distance. Cl. 33–169+.
Single outlet, Fountains, drinking, combined faucet and fountain. Cl. 299–10.
Single pair of shears, Cutting, hand-operated cutter, oscillating. Cl. 56–241.
Single panel, Bodies, storm-front shields, aprons, and robes, wind-shields. Cl. 296–90.
Single passage, Lubricators, force-feed, fluid-operated, condensation displacement. Cl. 184–51.
Single passage, Side guards. Cl. 105–440+.
Single pawl, Feed mechanism, escapement. Cl. 197–86.
Single phase, Motors, alternating. Cl. 172–275+.
Single piece, Hooks, wire. Cl. 248–27.
Single piece, spring-catch, Seals. Cl. 292–322.
Single pinion: *See* Internal gear. Cl. 56.
Single pivot, Fastenings, clamps, hooks, twin. Cl. 238–359.
Single pivot, Furniture, self-leveling, berths. Cl. 114–193.
Single plane sectional, Radiator type. Cl. 257–153.
Single-plane swing, Closures, pivoted. Cl. 220–32+.
Single point, Vehicle, parallel-depression, positive connections, duplex. Cl. 267–14.
Single puppet-valve, Four-cycle. Cl. 123–79.
Single rail, Suspended. Cl. 105–150+.
Single rail, Switches, frog-obviating. Cl. 246–418.
Single-rail type, Suspended. Cl. 104–93.
Single reel and web, Calendars. Cl. 40–116+.
Single reel and web, Changeable exhibitors. Cl. 40–62+.
Single, Removable weigh-chamber. Cl. 249–58+.
Single revolution, Four-cycle. Cl. 123–77.
Single revolution, Rolling-contact machines, rotary. Cl. 101–245.
Single revolution, Rolling-contact machines, rotary, feeding or delivering, article-controlled machines, tripped printing member. Cl. 101–235+.
Single, rotating, Feeding, receptacle moving, rotating, stirrer. Cl. 259–16.
Single rotating receptacle, Receptacle plural, fixed rotating. Cl. 259–50+.
Single row, Drilling, frame and planting-element arrangement, main and auxiliary frame, floating auxiliary, hopper-carrying, detachable. Cl. 111–65.
Single row, Drilling, frame and planting-element arrangement, rigid. Cl. 111–71+.
Single-row implements, Drilling. Cl. 111–79+.
Single saw, Jointing staves. Cl. 147–30+.
Single shaft, Gas-operated, rotary, center supply. Cl. 253–85+.
Single shaft, Gas-operated, rotary, end supply. Cl. 253–65+.
Single shaft, Gas-operated, rotary, peripheral supply. Cl. 253–44+.
Single shaft, Rotary, center supply. Cl. 253–163+.
Single shaft, Rotary, end supply. Cl. 253–148+.
Single shaft, Rotary, peripheral supply. Cl. 253–101+.
Single shaft, Rotary pumps, center supply. Cl. 253–187+.
Single shaft, Rotary pumps, end supply. Cl. 253–179+.
Single shaft, Water-operated, rotary, peripheral supply. Cl. 253–26+.
Single snap, Snap, oscillating contact. Cl. 200–73+.
Single spindle, Pearl and composition, Drilling. Cl. 79–14.
Single spool, Spool-holders, receptacles. Cl. 242–138.
Single stile. Cl. 228–34+.
Single stirrer, axis fixed, Feeding, receptacle fixed, stirrer, rotating. Cl. 259–22+.
Single stirrer, axis fixed, Receptacle plural, fixed, stirrer, rotating. Cl. 259–65+.
Single stirrer, Covers and stirrers, rotating stirrer, axis fixed. Cl. 259–121+.
Single stirrer, Discharging, receptacle fixed, stirrer, oscillating. Cl. 259–39.
Single stirrer, Discharging, receptacle fixed, stirrer, rotating, axis fixed. Cl. 259–42+.
Single stirrer, Discharging receptacle moving, rotating, stirrer, rotating. Cl. 259–33.
Single stirrer, Feeding and discharging, receptacle fixed, stirrer rotating, axis fixed. Cl. 259–7+.
Single stirrer, Receptacle fixed, stirrer. Cl. 259–114.
Single stirrer, Receptacle fixed, stirrer, oscillating. Cl. 259–101.
Single stirrer, Receptacle fixed, stirrer, rotating. Cl. 259–111.
Single stirrer, Receptacle fixed, stirrer, rotating, axis fixed. Cl. 259–106+.
Single stirrer, Receptacle fixed, stirrer, translating. Cl. 259–113.

Single stirrer, Receptacle moving, rotating, stirrer, rotating. Cl. 259–85.
Single stirrer, Receptacle moving, rotating, stirrer, translating. Cl. 259–87.
Single stirrer, Receptacle plural, fixed, stirrer, oscillating. Cl. 259–63.
Single stirrer, Receptacle plural, fixed, stirrer, translating. Cl. 259–61.
Single stirrer, Stirrers. Cl. 259–144.
Single stirrer, Stirrers, oscillating. Cl. 259–128.
Single stirrer, Stirrers, rotating. Cl. 259–138.
Single stirrer, Stirrers, rotating, axis fixed. Cl. 259–133+.
Single stirrer, Stirrers, translating. Cl. 259–140+.
Single stroke: *See* Bells. Cl. 246.
Single-stroke bell, Alarms, burglar, closure-operated, door and window. Cl. 116–5.
Single-stroke make and break, Mechanical, push-button. Cl. 200–160.
Single supply, Rotary pumps, center supply, single shaft. Cl. 253–194+.
Single-surface plunger, Block-presses, rotary mold, facial, intermittent. Cl. 25–69+.
Single-surface plunger, Block-presses, stationary mold. Cl. 25–83+.
Single-throw lever. Cl. 254–120+.
Single-throw lever and bar. Cl. 254–113+.
Single-throw lever and bar, Floor-jack type. Cl. 254–15+.
Single-throw lever, Floor-jack type. Cl. 254–17.
Single-throw lever, Hoisting-trucks. Cl. 254–8+.
Single-throw lever, Nail-extractor type. Cl. 254–21+.
Single-throw lever, Rail or tie shifters. Cl. 254–44.
Single-throw lever, Stretcher type. Cl. 254–77+.
Single-throw lever, Stretcher type, carpet. Cl. 254–62+.
Single tilter, Side projector. Cl. 293–23.
Single tilting fork, Hay-fork type. Cl. 294–122+.
Single top guide, Monorail. Cl. 104–121.
Single top guide, Monorail. Cl. 105–147.
Single track, Block-signal systems, automatic, electric. Cl. 246–33.
Single transverse bolt, Socket type, side detent. Cl. 279–86.
Single tread, Trolley-rails. Cl. 104–110.
Single trigger, Breech-loading, upward-tilting breech, locks. Cl. 42–42.
Single upper drum, Water-tube, straddle. Cl. 122–327+.
Single valve, Multiple expansion. Cl. 121–113.
Single valve, With special transmission, pistons symmetrical with transverse shaft. Cl. 121–121.
Single variation, Annunciator systems. Cl. 177–339.
Single variation, Annunciators. Cl. 177–329+.
Single wheel, Hand trucks and barrows. Cl. 298–3.
Single wheel, Motor-carrying attachments, driven-steering-wheel type. Cl. 180–13.
Single, Wind-motors, rotary, parallel axis, adjustable blades, transversely pivoted. Cl. 170–70.
Single wire, Compressing and binding, wire-twister type. Cl. 56–452+.
Single, Wrenches, clutched head, ratchet, pivoted pawl, reversing. Cl. 81–63.
Sink-heads and feeders, Molds, metal, ingots and pigs. Cl. 22–147.
Sinkers: *See* Rotary burs and, Cl. 66.
Sinkers, Fishing. Cl. 43–17.
Sinks. Cl. 4–36.
Sinuous passage, Dampers, stovepipe. Cl. 126–297.
Siphon, Acetylene, generators, water-feed, holder-operated, valveless. Cl. 48–17.
Siphon-bottle, With fluent materials, special types, special receptacle. Cl. 226–62.
Siphon-feed, Burners, liquid fuel, fuel-feeding, tanks. Cl. 158–51.
Siphon-head, Bottle-valves. Cl. 215–114+.
Siphon, Medicators, syringes, fountain, air-pressure, gravity-pressure. Cl. 128–228.
Siphon, Receivers, code-recoders. Cl. 178–91.
Siphon, Receptors, aspirators. Cl. 128–279.
Siphon, Tanks, automatic. Cl. 137–106.
Siphon-tube, With fluent materials, special types. Cl. 226–26.
Siphon, Water-closets. Cl. 4–22.
Siphons. Cl. 137–20.
Siphons, Lubricators, gravity-feed. Cl. 184–85.
Sirens. Cl. 116–147.
Six-cycle. Cl. 123–64.
Six or more walls, Seams or joints, Interfitting parts. Cl. 220–78.
Six-wheel, Trucks, bogie. Cl. 105–196.
Six-wheel, Trucks, bogie, equalisers. Cl. 105–195.
Six-wheel, Trucks, bogie, lateral-motion bolster. Cl. 105–188.
Six-wheel, Trucks, radial. Cl. 105–166.
Size and material testers: *See* Combined. Cl. 194.
Size-testers, Fraud-preventives. Cl. 194–102.
Sizers, Hat-machines. Cl. 223–32.
Sizing. Cl. 134–18+.
Sizing: *See* Finger-ring forming and, Cl. 29.
Sizing and burnishing, Tube-machines. Cl. 93–83.
Sizing and salting apparatus. Cl. 107–43.
Sizing and trimming, Chain-making. Cl. 59–29.
Skate, Cutting-sharpeners. Cl. 76–83.
Skate-wheels. Cl. 46–52.
Skaters' appliances. Cl. 46–53.
Skater' supports: *See* Walkers' or, Cl. 155.
Skates. Cl. 46–50+.
Skein-holders. Cl. 242–127.
Skein or spindle: *See* Spring-mounted. Cl. 31.
Skein, Reels. Cl. 34–27.
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Skeins: *See* Axle boxes and, Cl. 29.
Skeleton: *See* Shell or, Cl. 251.
Skeleton, Body and belt attached, cartridge, belt or sling, loop and pocket holders. Cl. 224–24.
Skeleton frame, Wall structure. Cl. 220–84.
Skeleton jacket, Spaced wall or jacket. Cl. 220–12.
Skeleton or fork, Elevator or hoist type, inclined, tilting carrier. Cl. 214–108.
Skeleton or fork type, Elevator or hoist type. Cl. 214–113.
Skeleton or fork type, Elevator or hoist type, horizontally swinging. Cl. 214–112.
Skeleton towers. Cl. 189–12+.
Skelping, Dies. Cl. 205–27.
Skelping, Tubes. Cl. 80–15.
Skewed, Curving or straightening, roll. Cl. 153–60.
Skid: *See* Wheel. Cl. 104.
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Slidable-matrix-carrier machines, Separate type. Cl. 199–75+.
Slidable poise, Scales, beam. Cl. 265–57.
Slidable poise, Scales, computing, beam. Cl. 265–31.
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Slide and detent, Checks, labels, and tags, holders. Cl. 40–17+.
Slide and tilt, Special car-bodies, dumping, tilting body. Cl. 105–269.
Slide attachments, Integral line, assembling, collector mechanisms, matrix-receivers. Cl. 199–30.
Slide-bearing lubrication. Cl. 184–5.
Slide-bearing lubricators, Lubricators. Cl. 184–100.
Slide, Boxes. Cl. 229–9+.
Slide, Buckles, penetrating prong. Cl. 24–190.
Slide, Buffers. Cl. 188–25.
Slide-carrier: *See* Rotary. Cl. 88.
Slide-carriers: *See* Rotary. Cl. 88.
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Slide, Clasps, button and loop. Cl. 24–247.
Slide, Filling-cans, nozzles, cut-offs. Cl. 221–31.
Slide, Folded blank boxes. Cl. 229–19+.
Slide or piston cut-off valve, Fluid distribution, admission, independent cut-off, reciprocating-distributing-valve. Cl. 121–146.
Slide, Pen and pencil cases. Cl. 120–19.
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Sliding and hooked end, Bolts, multiple. Cl. 292–8.
Sliding and pivoted, Keyhole-guards. Cl. 70–61.
Sliding and return, Cameras, magazine, slitting plate. Cl. 95–24.
Sliding and roller, Bolts, multiple. Cl. 292–9.
Sliding and rotary, Bolts. Cl. 292–57+.
Sliding and rotary, Bolts, multiple. Cl. 292–4.
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Sliding and swinging, Bolts. Cl. 292–63+.
Sliding and swinging, Bolts, double-acting. Cl. 292–71.
Sliding and swinging, Bolts, hooked end. Cl. 292–109+.
Sliding and swinging, Bolts, multiple. Cl. 292–5+.
Sliding and swinging, Breech-closures, transverse. Cl. 89–23.
Sliding and swinging holding member, Portable securer plate or bar. Cl. 292–290.
Sliding and swinging, lever-operating means, Bolts, loop. Cl. 292–247.
Sliding and swinging sash, Windows. Cl. 20–62+.
Sliding and tilting. Cl. 298–12+.
Sliding angular gear, Standing-grain gatherers, rotating reel, horizontal axis, adjustable position, with driving means. Cl. 56–223.
Sliding arm, Saw-guides. Cl. 143–166.
Sliding bar, Buttons and fasteners. Cl. 24–100.5.
Sliding bar, Floor-jack type, single-throw lever and bar. Cl. 254–16.
Sliding bar, Single-throw lever and bar. Cl. 254–114+.
Sliding, Barrels, closures, covers. Cl. 217–84.
Sliding base, Pins and transfer-wires. Cl. 129–9.
Sliding bolt, Lasts, instep-block fasteners. Cl. 12–138.
Sliding bolt or bar, Horse-rakes, rear delivery, wheel-supported, draft-dumpers. Cl. 56–390.
Sliding bolt, Padlocks, pivoted shackle. Cl. 70–106.
Sliding bolt, swinging detent, Trippers. Cl. 292–335.
Sliding, Bolts. Cl. 292–137+.
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Sliding, Bolts, multiple. Cl. 292–32+.
Sliding, Bolts, multiple, double-acting. Cl. 292–16.
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Sliding, Boxes, closures, hinged. Cl. 217–59.
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Sliding, Bulkheads and doors, doors, automatic. Cl. 114–119.
Sliding, Buttons and fasteners, hinged leaf. Cl. 24–100.
Sliding cam, Bolts, sliding, spring-projected, operating means. Cl. 292–170.
Sliding, Cameras, shutters. Cl. 95–55+.
Sliding, Car-brakes and catches, car-supported, cable-controlled, positive. Cl. 187–84.
Sliding carriage, Jointing staves, single saw. Cl. 147–30.
Sliding, Carriers. Cl. 186–32.
Sliding, Carriers. Cl. 243–34+.
Sliding, Car-stops. Cl. 104–259.
Sliding catch, Bolts, hooked end, operating means, rigid. Cl. 292–106.
Sliding catch, Bolts, loop. Cl. 292–248.
Sliding catch, Bolts, sliding, operating means, rigid. Cl. 292–150+.
Sliding catch, Bolts, sliding, spring-retracted. Cl. 292–179.
Sliding catch, Bolts, swinging, operating means, rigid. Cl. 292–207+.
Sliding catch, Extension-link. Cl. 292–277.
Sliding catch, Extension-link, notched bar. Cl. 292–266.
Sliding catch, Extension-link, slotted bar. 292–269.
Sliding catch, Extension-link, slotted or notched keeper. Cl. 292–273.
Sliding catch, Gear. Cl. 292–279.
Sliding catch, Hasps. Cl. 292–283+.
Sliding catch, Portable securer plate or bar, sliding holding member. Cl. 292–295.
Sliding catch, Rigid engaging means. Cl. 292–372.
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Sliding, Changeable exhibitors, inscription-covers. Cl. 40–62.
Sliding, Changeable exhibitors, interchangeable plates. Cl. 40–64.
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Sliding coupler, Door mechanism, sliding doors, vertical movement. Cl. 187–60.
Sliding coupler, Hatch mechanism. Cl. 187–64.
Sliding detent, Couplings. Cl. 213–55.
Sliding detent, Trippers. Cl. 292–333.
Sliding discharge-plate, Hopper-discharging. Cl. 221–142+.
Sliding discharge-plate, Hopper-discharging, discharger wiping and clearing. Cl. 221–128.
Sliding door. Cl. 268–8.
Sliding door, Door-springs. Cl. 16–98.
Sliding-door fasteners. Cl. 70–102.
Sliding, Door-hangers. Cl. 16–92.
Sliding door, Locks. Cl. 70–31.
Sliding, Doors. Cl. 20–19.+
Sliding doors: *See* Spaced. Cl. 105.
Sliding, Doors, car. Cl. 20–22+.
Sliding doors, Door mechanism. Cl. 187–56+.
Sliding, Filling-cans, nozzles. Cl. 221–27.
Sliding frame, Bedsteads, wardrobe-bedsteads. Cl. 5–38.
Sliding frame, Windows, sliding and swinging sash. Cl. 20–48.
Sliding gate, Saw-making, sharpening and gumming, rotating tool. Cl. 76–41.
Sliding graspers, Plate and receptacle lifters. Cl. 294–34.
Sliding gripping-piece, Wrenches, hand-grip, pivoted jaw, crossed handles, non-traveling fulcrum. Cl. 81–82.
Sliding guided, Implements, impact-tool. Cl. 262–15+.
Sliding, Hatches and covers. Cl. 114–202.
Sliding head, Forging, power hammers and presses. Cl. 78–36+.
Sliding head, Forging, power hammers and presses, drop, cam-lift. Cl. 78–27.
Sliding holding member, Portable securer plate or bar. Cl. 292–292+.
Sliding, Impellers, paddle-wheel, feathering-blades. Cl. 170–144+.
Sliding, Indicators, hand-set. Cl. 116–135.
Sliding jaw: *See* Pivoted. Cl. 24.
Sliding jaw, cam-closing, Wrenches. Cl. 81–128.
Sliding jaw, cam, Vises. Cl. 81–26.
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Sliding jaw-face, Wrenches. Cl. 81–179.
Sliding jaw, Fruit-gatherers, pole-supported. Cl. 56–337.
Sliding jaw, handle-lever grip, Wrenches. Cl. 81–126+.
Sliding jaw, Knotters, rotary lateral bill. Cl. 289–7.
Sliding jaw, Pliers and tongs. Cl. 294–42.
Sliding jaw, Wrenches, hand-grip. Cl. 81–85+.
Sliding jaws, Transplanters. Cl. 55–69.
Sliding knife, Crozing staves. Cl. 147–23.
Sliding knife, Fruit-gatherers, pole-supported. Cl. 56–338.
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Sliding, Knob-attaching devices. Cl. 292–352.
Sliding, Latches. Cl. 70–42.
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Sliding, Linear, cable, load suspension, rope-catch. Cl. 212–107.
Sliding, Linear, cable, load suspension, sheave-frame catch. Cl. 212–103.
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Sliding lock: *See* Pivoted or, Cl. 24.
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Sliding non-pivotal adjustment, Straight-edge type. Cl. 33–103.
Sliding operator: *See* Separate. Cl. 294.
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Sliding outer jaw, Wrenches, sliding adjustments, thread, non-traveling nut, terminal. Cl. 81–169.
Sliding pane, Windows, sash construction. Cl. 20–56.2.
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Sliding panel, Coffins, lids. Cl. 27–15.
Sliding part or wedge, Buckles. Cl. 24–194+.
Sliding part or wedge, Buckles, harness, clamping. Cl. 24–171.
Sliding part or wedge, Buckles, harness, penetrating tongue. Cl. 24–181.
Sliding part or wedge, Cord and rope holders. Cl. 24–136.
Sliding part or wedge, Cord and rope holders, couplings and sockets. Cl. 24–126.
Sliding pawl, Ratchet-drills. Cl. 77–51.
Sliding pawls, Bit-stocks, ratchet. Cl. 145–73+.
Sliding, Pin-fasteners. Cl. 24–162.
Sliding, Pin-fasteners, guards. Cl. 24–158.
Sliding, Pins and followers, spring. Cl. 129–6.
Sliding, Pipe and rod cutters. Cl. 81–201+.
Sliding piston, Rotary. Cl. 123–16.
Sliding pivot, Windows, double movement. Cl. 189–67.
Sliding pivotal adjustment, Straight-edge type. Cl. 33–102.
Sliding plane, Jointing staves. Cl. 147–33.
Sliding plate, Cameras, magazine. Cl. 95–23+.
Sliding plates, Changeable exhibitors. Cl. 40–65+.

Sliding-plunger control, Dibbling, manually-operated implements, regulated discharge. Cl. 111-96.
Sliding-poles. Cl. 227-32.
Sliding, Props. Cl. 208.
Sliding pusher, Connectors, check, reciprocating parts, article-delivery. Cl. 194-80.
Sliding pusher, Lock-releasing, gravity, forwardly-turning released part, article-delivery. Cl. 194-27.
Sliding pusher, Lock-releasing, gravity, reciprocating released part, article-delivery. Cl. 194-39.
Sliding pusher, Lock-releasing, thrust, pivoted detent, reciprocating coin-mover, article-delivery. Cl. 194-58.
Sliding pusher, Receptacles, match-safes, single delivery. Cl. 206-26.
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Sliding rack-catch, Wrenches, sliding adjustments, rack. Cl. 81-142+.
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Sliding rail, Continuous-rail crossings. Cl. 246-380+.
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Sliding sash: *See* Vertically. Cl. 189.
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Sliding sash, Windows, sliding and swinging sash, horizontally-pivoted frame. Cl. 20-45.
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Sliding saw-carriage, Saw-making, sharpening and gumming, rotating tool. Cl. 76-43.
Sliding, Saw-table gages. Cl. 143-174+.
Sliding section, Grates, oscillatory, vertical axis. Cl. 126-172.
Sliding set, Saw-making, setting. Cl. 76.
Sliding shackle, Padlocks. Cl. 70-108.
Sliding shackle, Padlocks, permutation. Cl. 70-113.
Sliding shaft, Shutter-workers. Cl. 268-15.
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Sliding, Shutters. Cl. 20-61.
Sliding shutter, Shutter-workers. Cl. 268-16.
Sliding side jaw, Wrenches, sliding adjustments, thread. Cl. 81-165.
Sliding side-shaper: *See* Combined reciprocating bender and, Cl. 153.
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Sliding-sleeve receiver, Car-propulsion systems, pneumatic, motor-charging, moving car, longitudinal supply-tube. Cl. 104-160.
Sliding, Snap-hooks. Cl. 24-238+.
Sliding, Soda-water apparatus, syrup-tanks, removable. Cl. 225-37.
Sliding, Special car-bodies, dumping, doors. Cl. 105-282.
Sliding splice-lock, Rail-joints, chair, angle. Cl. 238-198+.
Sliding stave-carriage, Crozing staves, rotary cutter. Cl. 147-20.
Sliding stile, Windows, sliding and swinging sash. Cl. 20-49+.
Sliding, Stove-shelves, oven shelf or rack. Cl. 126-339+.
Sliding, Straight-edge type, square and pivoted straight-edge. Cl. 33-94.
Sliding, Straight-edge type, T-head and pivoted straight-edge. Cl. 33-101.
Sliding swage, Saw-making, swaging. Cl. 76-53.
Sliding, Switches. Cl. 246-430.
Sliding tool, Crozing and chamfering barrels, rotating barrel. Cl. 147-16.
Sliding tool-holder, Combined machines, turret, tool-turret. Cl. 29-41.
Sliding trap-chamber, Predetermined bulk. Cl. 221-104+.
Sliding tray, Trunks, tray movers and supporters. Cl. 190-33.
Sliding tube, Systems, conveying devices. Cl. 184-9.
Sliding tumbler, Locks. Cl. 70-76.
Sliding tumblers, Permutation. Cl. 70-60.
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Sliding vane, Non-reciprocating piston, rotary. Cl. 121-82+.
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Sliding, Vehicle, leaf, end connections. Cl. 267-56.
Sliding, Vehicle, motion and direction. Cl. 116-50.
Sliding, Vehicle, motion and direction, window-exhibited sign or shutter. Cl. 116-44.
Sliding washer, Locked nut, side lock, transversely-sliding key, plate, or bar. Cl. 151-64.
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Sliding, Weather-strips. Cl. 20-68.
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Sling, Linear, cable, load-handling, draft-rope, dumping. Cl. 212-82.
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Slip, Legs, sockets. Cl. 3-10.
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Slit stays, Uppers, closures. Cl. 36-53.
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Slot: *See* Undercut. Cl. 281.
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Slotted bed, Plaiters. Cl. 223-43.
Slotted bit-seat, Cutters, rotary, cylindrical. Cl. 144-230.
Slotted bit-seat, Cutters, rotary, radial arms. Cl. 144-229.
Slotted bolt: *See* Wedged. Cl. 151.
Slotted, Bottle-stoppers, pivoted, locking, lever, plug. Cl. 215-43.
Slotted, Bottle-stoppers, pivoted, locking, lever, top. Cl. 215-45.
Slotted conduit. Cl. 104-140+.
Slotted fulcrum-guide, Wrenches, hand-grip, pivoted jaw, crossed handles. Cl. 81-83.
Slotted guide, Wrenches, pivoted outer jaw, traveling fulcrum. Cl. 81-109.
Slotted keeper, Extension-link. Cl. 292-272.
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Spiral, Chutes. Cl. 193-42.
Spiral conveyers, Potato-diggers. Cl. 55-58.
Spiral, Cornstalk type, cutters, with dischargers, tilting, with gatherers. Cl. 56-85.
Spiral, Cornstalk type, cutters, with gatherers. Cl. 56-95.
Spiral, Cornstalk type, pickers or huskers, roller, movable gatherer. Cl. 56-110.
Spiral deflector, Deflection, upflow-inlet, upflow-outlet. Cl. 183-102.
Spiral die, Coiling. Cl. 153-66.
Spiral fastener, Buttons and fasteners. Cl. 24-112.
Spiral-grooving, Circular section. Cl. 142-23+.
Spiral, Harrows. Cl. 55-152.
Spiral, Locomotives, spring. Cl. 105-71.
Spiral, Plows, steam, rotary. Cl. 97-62.
Spiral, Saw-making, sharpening and gumming, rotating tool. Cl. 76-38.
Spiral-seaming, Tube-making. Cl. 113-35.
Spiral shank, Nail-making, wire nails. Cl. 10-46.
Spiral shank, Nails, spikes, and tacks. Cl. 85-20.
Spiral-spring type, Bells. Cl. 116-168.
Spiral spring, Vehicle-energy actuation, switches, automatic, trailing fly-back. Cl. 246-320+.
Spiral, Stairs. Cl. 189-44.
Spiral strip, Conductors, insulated, armored. Cl. 173-267.
Spiral-strip cutting, Cutting, die, dies. Cl. 64-30.
Spiral strip, Cutting, machines, fixed cutter. Cl. 164-37.
Spiral tool-drivers. Cl. 145-53+.
Spiral water-conduit, Flue, vertical. Cl. 122-183.
Spiral weld, Welding, tubes. Cl. 78-86.
Spiral wind, Tube-machines. Cl. 93-80.
Spirals: *See* Stud. Cl. 140.
Spirals, Rotary earthworking elements. Cl. 97-65.
Spirit, Meters. Cl. 73-45.
Spirits: *See* Distilled. Cl. 195.
Spirometers. Cl. 73-112.
Spittoon attachments, Stoves, cooking. Cl. 126-32.
Spittoons. Cl. 4-38+.
Splash. Cl. 184-13.
Splash, Systems. Cl. 184-11.
Splasher, Amusement. Cl. 104-72.
Splice-bars, Rail-joints. Cl. 238-243+.
Splice-bars, Rail-joints, insulated. Cl. 238-159+.
Splice-key: *See* Bar-bolts and, Cl. 238.
Splice-key, Rail-joints, tread-bridge, rail-section. Cl. 238-226.
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Splice-lug engagement, Rail-joints, chair, angle. Cl. 238-197.
Splices: *See* Wire. Cl. 173.
Splices and joints. Cl. 20-92.
Splints, Bandaging, fracture apparatus. Cl. 128-87+.
Splints, Bandaging, fracture apparatus, extension appliances. Cl. 128-85+.
Splices, Belt-fasteners. Cl. 24-38.
Splices, Conductors, trolley, supports, ears. Cl. 191-44.
Splint-feed mechanism, Match-making. Cl. 144-66.
Split, adjustable, Wheels, fellies. Cl. 21-166+.
Split, adjustable, Wheels, non-resilient tires. Cl. 21-156+.
Split base and web, Rails. Cl. 238-141.
Split castings, Molds. Cl. 22-115.
Split collar, Telescopic-tube clamps. Cl. 208-135.
Split end, Fastenings, spikes. Cl. 238-369.
Split keys: *See* Double and, Cl. 238.
Split point, Trolley transfer. Cl. 104-104.
Split, Pulleys. Cl. 64-18.
Split ring. Cl. 192-13.
Split-ring catch, shackle-operated, Seals. Cl. 292-324.
Split, Rod to base, plate or head, handle to transverse tool-heads, socket in head. Cl. 287-38.

Split seconds, Watches, stop. Cl. 58-75.
Split socket, Socket type. Cl. 279-41+.
Split tread, Rails. Cl. 238-142.
Splitting. Cl. 144-193+.
Splitting: *See* Blank. Cl. 76.
Splitting: *See* Skiving and, Cl. 69.
Splitting: *See* Mica. Cl. 125.
Splitting and bundling. Cl. 144-192.
Splitting, shearing, and punching. Cl. 126-23+.
Spoke: *See* Adjustable. Cl. 21.
Spoke: *See* Combined curved spring and rigid. Cl. 152.
Spoke: *See* Wheel. Cl. 144.
Spoke-caps, Wheels, fellies, spoke connections. Cl. 21-174+.
Spoke-clamping, Tire-tighteners, felly-expanders. Cl. 157-10.
Spoke connections, Wheels, fellies. Cl. 21-171+.
Spoke connections, Wheels, resilient-tire rims. Cl. 21-151.
Spoke-extractors. Cl. 157-12.
Spoke-securing, Forging, power hammers and presses. Cl. 78-16.
Spoke-setters. Cl. 157-3+.
Spoke tenoning and sawing: *See* Wheel. Cl. 144.
Spoked wheels, Assembling. Cl. 29-87.
Spoked wheels, Blanks and processes. Cl. 29-174.
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Spokes: *See* Spring. Cl. 152.
Spokes, Wheels. Cl. 295-25+.
Spokeshaves. Cl. 145-55+.
Sponge, Iron and steel direct. Cl. 75-77.
Sponging. Cl. 26-7.
Spool and bobbin lifters, Bobbin and cop winding. Cl. 242-46.
Spool and impalement holders: *See* Combined. Cl. 223.
Spool, Cabinets. Cl. 211-10.
Spool-holders. Cl. 242-134+.
Spool-labeling, Machines. Cl. 216-10.
Spool, Special-work machines, combined. Cl. 144-14.
Spool type, Reciprocating. Cl. 251-81+.
Spoolers. Cl. 242-16+.
Spools: *See* Bobbins and, Cl. 242.
Spools: *See* Bobbins, cops, and, Cl. 242.
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Spout, Filling-cans, closures, cap. Cl. 221-5.
Spout, Hand-oilers, feed-controllers. Cl. 221-44.
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Spray: *See* Liquid. Cl. 261.
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Spray, Burners, liquid fuel. Cl. 158-73+.
Spray, Contact devices, porous mass, liquid-flow control. Cl. 261-98.
Spray, Contact devices, wet baffle, liquid-flow control. Cl. 261-111.
Spray, Feed-heaters, pan in steam-space. Cl. 122-436.
Spray-fluid actuated, Non-ambulant discharge and supply, moving discharging member. Cl. 299-64+.
Spray-fluid actuated, Nozzles, deflectors. Cl. 299-123+.
Spray-fluid propelled, Ambulant discharge and stationary supply. Cl. 299-49+.
Spray, Ice-making apparatus, freezers. Cl. 62-107.
Spray-jets: *See* Perforated rolls and, Cl. 8.
Spray-stream, Machines, affixing-magazine, stationary, adhesive applying or moistening. Cl. 216-49.
Sprinkler, Nozzles. Cl. 299-153.
Sprinkling and attachments, Nozzles. Cl. 239-533.
Spray to steam-space, Feed-heaters. Cl. 122-439.
Sprocket, Contact devices, rotating, impeller. Cl. [illegible].
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Spread-center-sill type, Car framing and structure, underframes, metallic. Cl. 105-417.
Spread ends, Ties, forms. Cl. 238-44.
Spread-wire, Joining wire, implements, twisters. Cl. 140-120.
Spreader: *See* Stationary. Cl. 275.
Spreader, Fuel-feeders. Cl. 110-111+.
Spreader type: *See* Manure. Cl. 275.
Spreaders: *See* Leg. Cl. 54.
Spreaders: *See* Loop. Cl. 112.
Spreaders: *See* Point. Cl. 85.
Spreaders and ties, Propped. Cl. 228-33.
Spreaders, Fabric-making, slat and wire, strand-twisting. Cl. 140-33.
Spreaders, Implements, mucilage-holders. Cl. 91-67.4+.
Spreaders or graders, Scrapers or plows, railway type. Cl. 37-58.
Spreaders, Single-impulse systems. Cl. 186-13.
Spreading: *See* Film. Cl. 18.
Spreading: *See* Hoof. Cl. 168.
Spreading hopper or form, With fluent materials, special types, special receptacle, bag, filling. Cl. 226-59.
Spreading or flaring, Reshaping. Cl. 49-27.
Spreading or furnace discharging feature: *See* Charge. Cl. 214.
Spreading, Special machines, buttonhole, clamp-feeding. Cl. 112-74.
Spring. Cl. 185-37+.
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Spring: *Cf.* Elastic.
Spring: *Cf.* Resilient.
Spring: *See* Coaxial. Cl. 246.
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Spring: *See* Interposed. Cl. 280.
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Spring: *See* Motors. Cl. 58.
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Spring: *See* Shock-absorbing or, Cl. 155.
Spring: *See* Spiral. Cl. 246.
Spring: *See* Tension. Cl. 267.
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Spring-actuated, Cable, drum, fire-escape type. Cl. 254-152+.
Spring-actuated, Fishing, hooks. Cl. 43-31.
Spring-actuated, Forward projector. Cl. 293-25+.
Spring-actuated, Non-reciprocating piston, rotary, sliding vane, eccentrically-walled chamber. Cl. 121-86.
Spring-actuated, Non-reciprocating piston, rotary, swinging abutment. Cl. 121-80.
Spring-actuated, Non-reciprocating piston, rotary, swinging vane. Cl. 121-95.
Spring-actuated, Non-stop valves, reciprocating disk or plug, supplemental operator. Cl. 251-144+.
Spring-actuated spindle, Fountain-pens, stylographic. Cl. 120-45.
Spring-actuated, Vehicle-energy actuation, switch-stands, automatic, trailing fly-back. Cl. 246-291.
Spring, Adjustable, vertical. Cl. 248-9+.
Spring and gravity, Leaf-turners. Cl. 84-135.
Spring and rigid spoke: *See* Combined curved. Cl. 152.
Spring appliers and removers, Assembling. Cl. 29-87.1.
Spring arm. *See* Sliding and, Cl. 292.
Spring arm: *See* Swinging and, Cl. 292.
Spring-arm, Bolts. Cl. 292-80+.
Spring-arm, Bolts, double-acting. Cl. 292-76+.
Spring-arm, Bolts, multiple. Cl. 292-19+.
Spring-arm, Bolts, multiple, double-acting. Cl. 292-17.
Spring-arm catch, Bolts, hooked end, operating means, rigid. Cl. 292-107.
Spring-arm catch, Bolts, loop. Cl. 292-249.
Spring-arm catch, Bolts, sliding, operating means, rigid. Cl. 292-152.
Spring-arm catch, Bolts, sliding, spring-retracted. Cl. 292-180.
Spring-arm catch, Bolts, swinging, operating means, rigid. Cl. 292-209.
Spring-arm catch, Rigid engaging means. Cl. 292-303.
Spring-arm detent, Trippers. Cl. 292-334.
Spring-arm, Knob-attaching devices. Cl. 292-353.
Spring-assisted, Lubricators, force-feed, followers, fluid-operated. Cl. 184-41.
Spring-axles, Frames. Cl. 208-101.
Spring back-supports. Cl. 155-164.
Spring-backs, Clamping. Cl. 129-37.
Spring, Bandaging, trusses, pads, resilient. Cl. 128-119.
Spring-bolster, Trucks, bogie. Cl. 105-197+.
Spring, Bottle-stoppers, fasteners. Cl. 215-25+.
Spring, Bottle-stoppers, pivoted, locking. Cl. 215-48+.
Spring, Bottle-stoppers, tube, valve. Cl. 215-102.
Spring, Bottle-valves, controllers. Cl. 215-61.
Spring, Bottles, necks, breakable, stopper-fasteners. Cl. 215-108.
Spring, Bottoms and backs. Cl. 155-179+.
Spring, Boxes, crates, cushioned. Cl. 217-54+.
Spring, Bracelets, single hinge. Cl. 63-8.
Spring, Buttons and fasteners, separable. Cl. 24-106+.
Spring, Carriages, returns. Cl. 197-68.
Spring, Casters. Cl. 16-74.
Spring-catch: *See* Single piece. Cl. 292.
Spring-clasp, ticket-cases. Cl. 211-39.
Spring, Clasps, pivoted. Cl. 24-252+.
Spring-clips: *See* Springs and, Cl. 78.
Spring, Closures, pivoted, single-plane swing. Cl. 220-35.
Spring-clutch, Vehicle-energy actuation, switch-stands, automatic, trailing-setting, yielding rail. Cl. 246-286+.
Spring, Combined stop and non-stop. Cl. 251-3.
Spring-compensator, Cable, drum, stretcher type. Cl. 254-165.
Spring, Composite. Cl. 185-9+.
Spring-controlled, Bottle-valves, siphon-head. Cl. 215-115.
Spring-controlled, Lubricators, oil-cup closures, hinged cover. Cl. 184-91.
Spring-controlled, Lubricators, oil-cup closures, rotatable cover. Cl. 184-93.
Spring-controlled, Lubricators, oil-cup closures, slidable cover. Cl. 184-95.
Spring, Couplings, pin-supports. Cl. 213-52.
Spring-detent: *See* Leaf. Cl. 285.
Spring devices. Cl. 267.
Spring drive: *See* Cord and, Cl. 77.
Spring-driven, Rock-drilling machines, impact. Cl. 255-39.
Spring-drum article-holders, Reeling and unreeling, reels, carriers, hand or body. Cl. 242-98.
Spring-drum, Light-supports, vertically adjustable. Cl. 240-71.
Spring-drum, Reeling and unreeling, reels, clothesline type. Cl. 242-102.
Spring-drum, Reeling and unreeling, reels, tape-measure type. Cl. 242-84.9.
Spring-drum type, Reeling and unreeling, reels. Cl. 242-107+.
Spring-erector, Collectors, trolley-retrievers, erector release. Cl. 191-88+.
Spring-erector, Collectors, trolley, stands. Cl. 191-68+.
Spring, Eyeglasses and spectacles, bridges. Cl. 88-45+.
Spring, Fastenings, clamps. Cl. 238-349.
Spring, Filling-cans, nozzles, cut-offs, automatic. Cl. 221-14+.
Spring, Flexible material joint. Cl. 287-86.
Spring, Followers. Cl. 129-32+.
Spring-frame, Special wheel-base, two-wheeled, tandem. Cl. 180-32.
Spring, Frames. Cl. 208-94.
Spring, Frames, heads. Cl. 208-103.
Spring, Guard-rails. Cl. 238-18.
Spring, Guns. Cl. 124-12+.
Spring, Guns, air. Cl. 124-10+.
Spring, handle-bars. Cl. 208-125.
Spring, Handle-bars, continuous adjustable, locks. Cl. 208-119.
Spring, Harrow-teeth. Cl. 55-36+.
Spring, Harrows, wheel. Cl. 55-74+.
Spring-head clips, Blanks and processes. Cl. 29-172.
Spring-heel, Soles. Cl. 36-27.
Spring-heels, Shoes, cushioned. Cl. 168-15.
Spring, Hinges. Cl. 16-25.
Spring-holders, Vehicle, bicycle. Cl. 224-37+.
Spring-hook, Checks, labels, and tags, fasteners. Cl. 40-26.
Spring-impact, Bells, gong type, pivoted striker. Cl. 116-164.
Spring-jack cut-off, Systems, central, centralized energy, line-signal control. Cl. 179-72.
Spring-jack cut-off, Systems, central, line-signal control. Cl. 179-75.
Spring-jack cut-off, Systems, central, multiple switchboard, centralized energy, line-signal control. Cl. 179-57.

Spring-jack cut-off, Systems, central, multiple switchboard, line-signal control. Cl. 179–68.
Spring-jack-cut-off, Systems, central, multiple switchboard, plug-terminal, line-signal control. Cl. 179–61.
Spring-jack cut-off, Systems, central, multiple switchboard, special test-plug, line-signal control. Cl. 179–65.
Spring-jack, Switchboards. Cl. 179–96+.
Spring, Jar-closures. Cl. 215–91+.
Spring-jaws, Socket type. Cl. 279–46+.
Spring jaws, Socket type, self-grasping, yielding grasping-jaws. Cl. 279–23.
Spring-latch, Saw-teeth, fastenings. Cl. 143–152.
Spring-locked, Props, pivoted, one leg. Cl. 208–79.
Spring, Locomotives. Cl. 105–67+.
Spring-motor operated, Breech-loading. Cl. 42–5.
Spring-motor, Polycycles, propulsion. Cl. 208–163.
Spring mounted on axle, Steam traction-engines. Cl. 180–40.
Spring-mounted skein or spindle, Axles. Cl. 21–187.
Spring-mounting, Spring. Cl. 185–45.
Spring, Mounts, recoil-checks. Cl. 89–44.
Spring, Nonstop valves, reciprocating disk or plug, supplemental operator, cam. Cl. 251–132.
Spring, Nonstop valves, reciprocating disk or plug, supplemental operator, lever. Cl. 251–134.
Spring, Nonstop valves, reciprocating disk or plug, supplemental operator, push or pull button. Cl. 251–137+.
Spring, Nonstop valves, reciprocating disk or plug, supplemental operator, screw. Cl. 251–141.
Spring only, Bandaging, trusses, connections, resilient. Cl. 128–126.
Spring-operated catch, Followers, locking. Cl. 129–30.
Spring-operated, Lubricators, force-feed, followers. Cl. 184–45.
Spring-operated, Reeling and unreeling, reels, fishing-rod type. Cl. 242–84.3.
Spring-operated, Screw-drivers, shell-guide. Cl. 145–51.
Spring or weight: *See* External. Cl. 286.
Spring, Pins and followers. Cl. 129–5+.
Spring, Pipe and socket, detent, pivoted. Cl. 285–173.
Spring, Pipe and socket, detent, reciprocating. Cl. 285–169.
Spring-pivot, Keys. Cl. 178–109.
Spring planks and transoms, Trucks, bogie, bolster-guides. Cl. 105–208.
Spring, Platforms, trap-doors, actuators. Cl. 105–434.
Spring-power, Wheeled, truck, hoisting. Cl. 228–10.
Spring-pressed: *See* Longitudinally. Cl. 286.
Spring-pressed: *See* Longitudinally and radially. Cl. 286.
Spring-pressed: *See* Radially. Cl. 286.
Spring-pressed, Connectors, rail-bonds, surface-connected. Cl. 173–279.
Spring-pressed detent, Socket. Cl. 287–122.
Spring-pressed, Feed and presser mechanisms, rolls, feed. Cl. 144–247.
Spring-pressed jaw, Traction, cables, grippers, automatic grip control. Cl. 104–209.
Spring-pressed, Pliers and tongs, crossed handles. Cl. 294–47.
Spring-pressed, Reciprocating, disk or plug, regrinding. Cl. 251–38.
Spring-pressed, Rotary disk, multiway. Cl. 251–90.
Spring-pressed, Rotary plug. Cl. 251–112.
Spring-pressed, Wrenches, pivoted inner jaw, pin-fulcrum. Cl. 81–97.
Spring-pressed, Wrenches, pivoted outer jaw, fixed fulcrum, non-traveling jaw. Cl. 81–99.
Spring-pressed, Wrenches, pivoted outer jaw, fixed fulcrum, traveling jaw, rocking sleeve. Cl. 81–103+.
Spring-projected, Bolts, hooked end. Cl. 292–121+.
Spring-projected, Bolts, sliding. Cl. 292–163+.
Spring-projected, Bolts, sliding and rotary. Cl. 292–60+.
Spring-projected, Bolts, swinging. Cl. 292–219+.
Spring-projected, Bolts, swinging and camming. Cl. 292–242.
Spring-projected, Wheels, traction, movable spurs. Cl. 21–212.
Spring, Projectors, automatically actuated. Cl. 258–7.
Spring-rail, Vehicle-energy actuation, continuous-rail frogs. Cl. 246–276.
Spring, Recording, scales. Cl. 265–8+.
Spring, Regulators, outlet-pressure, diaphragm. Cl. 50–23.
Spring, Regulators, outlet-pressure, diaphragm, lever. Cl. 50–26.
Spring, Regulators, outlet-pressure, float. Cl. 50–29.
Spring, Regulators, outlet-pressure, float, lever. Cl. 50–32.
Spring, Regulators, outlet-pressure, piston. Cl. 50–35.
Spring, Regulators, outlet-pressure, piston, lever. Cl. 50–38.
Spring-retained, Lubricators, gravity-feed, automatic cut-off, vertically-reciprocating valve, mechanically operated. Cl. 184–75.
Spring-retracted, Bolts, hooked end. Cl. 292–129.
Spring-retracted, Bolts, sliding. Cl. 292–177+.
Spring-retracted, Bolts, sliding and rotary. Cl. 292–62.
Spring-retracted, Bolts, sliding and swinging. Cl. 292–69.
Spring-retracted, Bolts, swinging. Cl. 292–229.
Spring-retracted, Collectors, trolley-retrievers. Cl. 191–91+.
Spring-retracted, Sawmill set-works. Cl. 143–121.
Spring-return, Lubricators, force-feed, followers, fluid-operated. Cl. 184–42.
Spring return, Reciprocating-saw machines, scroll. Cl. 143–73.
Spring-rewind, Changeable exhibitors, double reel and web. Cl. 40–89+.
Spring-rewind, Changeable exhibitors, single reel and web. Cl. 40–85.
Spring, Rheostats, compressible. Cl. 219–52.
Spring, Runner. Cl. 280–25.
Spring, Saddle-posts. Cl. 208–61.
Spring saddle-supports, Frames. Cl. 208–100.
Spring, Sash-balances. Cl. 16–115+.
Spring-scale instruments, Muscular strength. Cl. 265–21+.
Spring-scale instruments, Strength of material. Cl. 265–18+.
Spring, Scales. Cl. 265–63+.
Spring, Scales, beam, auxiliary or substitute indicator. Cl. 265–59.
Spring, Scales, computing. Cl. 265–38+.
Spring, Scales, vehicle. Cl. 265–42.
Spring-seated, Coupled nut and bolt, cross-key. Cl. 151–6.
Spring-seated jaw-frame, Wrenches, sliding adjustments, rack. Cl. 81–146+.
Spring-seated, Wrenches, sliding adjustments, rack, sliding rack-catch. Cl. 81–145.
Spring-set, Saw-making, setting. Cl. 76–71.
Spring-setting, Article making or forming. Cl. 140–89.
Spring, Shade, rollers. Cl. 156–36.
Spring, Shoes, hoof-spreading, hinged sections. Cl. 168–8.
Spring, Single-impulse systems. Cl. 186–10+.
Spring, Snap-hooks, pivoted. Cl. 24–233+.
Spring, Snap-hooks, sliding. Cl. 24–2.9.
Spring, Socket type, side detent. Cl. 279–79+.
Spring, Special machines, embroidering, horizontal needle, fabric-shifting, balancing. Cl. 112–92.
Spring-spokes: *See* Curved. Cl. 152.
Spring-spokes: *See* Helical. Cl. 152.
Spring-spread, Props, pivoted, two (or more) legs. Cl. 208–83.
Spring-support, Centrifugal. Cl. 264–18.
Spring-supported. Cl. 155–50+.
Spring-supports: *See* Broken. Cl. 267.
Spring suspension, Wheeled, running-gear, body-frames. Cl. 280–106.5.
Spring, Tie-plates. Cl. 238–302.
Spring, Ties, forms, special. Cl. 238–48.
Spring-tongued washer-plate, Locked nut, side lock, flexible, automatic. Cl. 151–52.
Spring-tooth, Harrows. Cl. 55–33+.
Spring-tooth, Pivoted tooth-bars. Cl. 55–130.
Spring-tooth, Pivoted tooth-bars, lever-actuated. Cl. 55–104.
Spring, Tops, let-down type, down-supports. Cl. 296–134.
Spring, Tops, let-down type, down-supports, body and top attached. Cl. 296–133.
Spring, Tops, let-down type, down-supports, prop-block cushions. Cl. 296–126.
Spring, Tops, let-down type, single bow group, raising and lowering devices. Cl. 296–113.
Spring, Transmitters, electrode, contact. Cl. 179–145.
Spring, Trucks, platform. Cl. 105–212+.
Spring type: *See* Spiral. Cl. 116.
Spring, Umbrellas, retainers, runner. Cl. 135–40+.
Spring, Vertically-swinging load-support, shovel or fork type, return, buffer, or counterweight feature. Cl. 214–143.
Spring, Weather-strips, hinged. Cl. 20–67.
Spring, Wheeled. Cl. 280–79.
Spring, Wheeled, attachments, rein-holders, clamp. Cl. 280–184+.
Spring, Wheeled, attachments, whip-sockets, whip-gripping. Cl. 280–172.
Spring, Wheeled, running-gear. Cl. 280–124.
Spring, Wheeled, running-gear, swinging-axle connections. Cl. 280–126+.
Spring, Wheeled, running-gear, swinging-axle connections, offset pivot. Cl. 280–134+.
Spring, Wheeled, running-gear, swinging-axle connections, platform type. Cl. 280–131.
Spring, Wheeled, running-gear, swinging-axle connections, rocking. Cl. 280–129.
Spring, Wheeled, running-gear, swinging axle connections, rocking, platform type. Cl. 280–128.
Spring, Wheeled, running-gear, rocking. Cl. 280–112.
Spring, Wheeled, running-gear, swinging axle. Cl. 280–120+.
Spring, Wheeled, running-gear, swinging axle and rocking. Cl. 280–110.
Spring, Wheeled, running-gear, swinging axle, offset pivot. Cl. 280–118+.
Spring, Wheeled, running-gear, swinging axle, platform type. Cl. 280–115.
Spring, Wheeled, two-wheel. Cl. 280–65+.
Spring-wheels. Cl. 152–25+.
Spring, Wire, stretcher. Cl. 256–39.
Springs. Cl. 5–21.
Springs. Cl. 21–105.
Springs: *See* Body suspension and, Cl. 105.
Springs: *See* Bottom. Cl. 221.
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Springs: *See* Conical. Cl. 140.
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Springs: *See* Driving. Cl. 197.
Springs: *See* Fabrics and, Cl. 5.
Springs: *See* Hair. Cl. 58
Springs: *See* Metal. Cl. 238.
Springs: *See* Metallic. Cl. 152.
Springs: *See* Metallic. Cl. 295.
Springs: *See* Returning. Cl. 197.
Springs: *See* Slats and, Cl. 5.
Springs: *See* Watch. Cl. 206.
Springs: *See* With, Cl. 105.
Springs and guides, Trucks, axel-box mounting. Cl. 105–224.
Springs and retarders, Vehicle. Cl. 267–8+.
Springs and spring-clips, Forging, dies. Cl. 78–78.
Springs, Bed-bottoms. Cl. 5–29.
Springs, Blanks and processes. Cl. 29–173.
Springs, Frames, forks. Cl. 208–97.
Springs, Rail-joints, splice-bars. Cl. 238–259.
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Tilting, Pins and transfer-wires. Cl. 139-11.
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Tilting, Roadway vehicle loading or unloading, with external cooperating means, vehicle-unloading, moving vehicle, suspended. Cl. 214-61.
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Tilting, Vertically-swinging load-support, shovel or fork type. Cl. 214-140.
Tilting, Vertically-swinging load-support, shovel or fork type, horizontally swinging, reciprocating handle. Cl. 214-137.
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Twin, Fastenings, clamps, hooks. Cl. 238-357+.
Twin fields, Locomotives, electric, rotor on axle. Cl. 105-58.
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Twin jaws, Fastenings, rail-anchors, tie-contact. Cl. 238-327+.
Twin jaws, Rail-seats. Cl. 238-275+.
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Two-button, Snap, oscillating contact, double snap, cam or wedge release. Cl. 200-60.
Two-button, Snap, oscillating contact double snap, latch-trip. Cl. 200-71.
Two-button, Snap, oscillating contact single snap. Cl. 200-75.
Two-car truck, Trains, articulated. Cl. 105-4.
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Two-cycle, Double-acting. Cl. 123-61+.
Two-cycle, Oil-engines, pump-supply to air-inlet. Cl. 123-29.
Two diameters, Fire-tube, horizontal. Cl. 122-84+.
Two-fluid, Batteries. Cl. 204-40+.
Two-fluid flow, Trickler. Cl. 257-179+.
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Two internal headers, Vertical casing, internal tube, vertical. Cl. 257-227.
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Two-part mold, Separate type, casting mechanisms, with finishing mechanisms. Cl. 199-83.
Two-part, Molds, metal. Cl. 22-153.
Two-part plug, Connectors, quick-detachable interposed. Cl. 173-343.
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Two-wheel, Wheeled, extensible, folding, pivoted wheel-carrier, longitudinal axis. Cl. 280-40.
Two-wheel, Wheeled, hand. Cl. 280-60.
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Tying, With fluent materials, special types, special receptacle, bag, filling and closing. Cl. 226-54.
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Type-bar, Case-shifts. Cl. 197-74+
Type-bar, Line-locks. Cl. 197-111.
Type-bar, Machines, type or matrix forming. Cl. 76-4.5.
Type-bars, Blanks and processes, types or matrices. Cl. 76-107.5.
Type, Cabinets. Cl. 211-41+.
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Type-groove, Printing members. Cl. 101-381.
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Vehicle, Special. Cl. 155-5+.
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Vehicle-unloading, Roadway vehicle loading or unloading, with external coöperating means. Cl. 214-44+.
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Vent-bungs, Fermenting, apparatus. Cl. 195-19.
Vent, Closures. Cl. 220-44.
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Vented, Hand-oilers. Cl. 221-59.
Vented, Lubricators, force-feed, fluid-operated, steam or air, suction. Cl. 184-59.
Vented, Molds, blowing. Cl. 49-71.
Vented, Receptacle moving, rotating, receptacles. Cl. 259-90.
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Ventilated, Head-coverings, hats. Cl. 2-114.
Ventilated, Milk-cans, coolers. Cl. 31-84.
Ventilated, Stoves, cooking, ovens. Cl. 126-21.
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Ventilating, Boxes, crates. Cl. 217-42.
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Ventilators, Bodies, storm-front shields, aprons, and robes, wind-shields. Cl. 296-94.
Ventilators, Head-coverings, hats. Cl. 2-33.
Venting, Molding apparatus. Cl. 22-39.
Venting, Multiple regulating devices, auxiliary valve. Cl. 50-12.
Vents and stoppers. Cl. 89-30.
Vents, Beer apparatus. Cl. 225-20.
Vents, Chills. Cl. 22-183.
Vents, Chills, plow. Cl. 22-176.
Vents, Cores. Cl. 22-171.
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Vents, Filling-cans, nozzles, cut-offs, automatic. Cl. 221-17.
Vents, Hand-oilers, drip-catchers, return. Cl. 221-39.
Vents, Liquid fuel, fonts. Cl. 67-86.
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Vertical, Adjustable. Cl. 248-2+.
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Vertical adjustment, Rail-joints. Cl. 238-172.
Vertical adjustment, Rail-seats. Cl. 238-261.
Vertical adjustment, Supports. Cl. 179-148.
Vertical air-tube, Gas and liquid contact, liquid injected. Cl. 257-69.
Vertical air-tube, Gas and liquid contact, trickler. Cl. 257-56+.
Vertical air-tube, Radiator type. Cl. 257-141+.
Vertical alined fire-tube, Flue, vertical, internal water-tube. Cl. 122-178+.
Vertical and horizontal angle measurers, Light-ray type. Cl. 33-69.
Vertical-angle measurers, Light-ray type. Cl. 33-70+.
Vertical axis: *See* Rotary. Cl. 56.
Vertical axis: *See* Rotary. Cl. 246.
Vertical axis, Amusement, rotary car on truck. Cl. 104-75.
Vertical axis, Convertible, cutter and detachable conveyer, rake. Cl. 56-4.
Vertical axis, Cutting and conveying, reciprocating-cutter type, self-raking mechanism, rotating. Cl. 56-169+.
Vertical axis, Fire-pots and linings, rotary. Cl. 126-150.
Vertical axis, Furnace structure, progressive feed, grate, rotary. Cl. 110-36.
Vertical axis, Grates, oscillatory. Cl. 126-170+.
Vertical axis, Grates, rotary. Cl. 126-182.
Vertical-axis looper, Stitch-forming, chain or double chain. Cl. 112-202.
Vertical axis, Receptacle-stands, swinging. Cl. 248-60+.
Vertical axis, Stitch-forming, revolving-hook type. Cl. 112-184.
Vertical axis, Stitch-forming, shuttle type, oscillatory. Cl. 112-193.
Vertical axis, Stitch-forming, shuttle type, rotary. Cl. 112-191.
Vertical bevel-flange, Rail-joints, splice-bars. Cl. 238-257.
Vertical boiler, Fire-tube, transverse. Cl. 122-111+.
Vertical, Boring-machines. Cl. 77-4.
Vertical casing. Cl. 257-216+.
Vertical circuit, Cutting and conveying, reciprocating-cutter type, self-raking mechanism. Cl. 56-176+.
Vertical coil, Tank, internal tube. Cl. 257-205.
Vertical coil, Vertical casing, internal tube. Cl. 257-229.
Vertical course, Stuff-working, beating-engines. Cl. 92-25.
Vertical, Covers and stirrers, rotating stirrer, axis fixed, single stirrer. Cl. 259-122.
Vertical cut, Cutting, oscillating cutter. Cl. 56-247.
Vertical cut, Cutting, rotating-cutting-disk type. Cl. 56-256.
Vertical cutter: *See* Supplemental. Cl. 56.
Vertical, Cylinder, internal. Cl. 34-9.
Vertical, Deflection, vortical whirl. Cl. 183-81+.
Vertical deflection, Wind-motors, rotary, parallel axis, wheel-deflection mechanism. Cl. 170-42.

Vertical, Discharging, receptacle fixed, stirrer, rotating, axis fixed, single stirrer. Cl. 259-43+.
Vertical drop: *See* With, Cl. 238.
Vertical drop and pivoted swing, Centerboards. Cl. 114-120+.
Vertical drop, Centerboards. Cl. 114-138+.
Vertical drop, Fuel-feeders. Cl. 110-118.
Vertical drop, Rail-joints, scarf. Cl. 238-235.
Vertical drum, Heating-drum type. Cl. 257-172+.
Vertical drum, Heating-drum type, air-conduit. Cl. 257-167+.
Vertical drum, Spark-arresters, smoke-box. Cl. 110-126.
Vertical equalizing, Trains, vestibule connections, face-plate expanders. Cl. 105-13.
Vertical face, Fastenings, clamps, anchors. Cl. 238-344.
Vertical, Feeding, receptacle fixed, stirrer, rotating, single stirrer, axis fixed. Cl. 259-23+.
Vertical, Fire-tube. Cl. 122-114+.
Vertical, Fire-tube, flue. Cl. 122-48.
Vertical, Flue. Cl. 122-155+.
Vertical, Furnaces, agitating, rotary stirrer. Cl. 263-26.
Vertical, Furnaces, rotary chamber, single. Cl. 263-35.
Vertical hand-lever, Trackman's-car drive. Cl. 105-87.
Vertical hanger-rod, Trains, vestibule connections, face-plates. Cl. 105-22.
Vertical-kerf cutter, Implements, rotary tool. Cl. 262-20+.
Vertical lever, Switch-stands, structural types. Cl. 246-410+.
Vertical liquid-tube, Tank, internal tube. Cl. 257-203+.
Vertical loop, Vertical casing, internal tube. Cl. 257-221.
Vertical, Milling, stationary cutter-axis. Cl. 90-19.
Vertical, Molds, sand, with cores. Cl. 22-133.
Vertical mortise, Breech-loading, sliding breech-block. Cl. 42-23+.
Vertical motion, Cab signal or train control, track trips. Cl. 246-204.
Vertical motion, Switches. Cl. 246-433.
Vertical motion, Vehicle-energy actuation, signals and gates, automatic, track mechanism. Cl. 246-343.
Vertical motion, Vehicle-energy actuation, signals and gates, automatic, track mechanism, latch or clutch release. Cl. 246-302.
Vertical motion, Vehicle-energy actuation, signals and gates, automatic, track mechanism, vehicle-restrained gates and doors. Cl. 246-397+.
Vertical motion, Vehicle-energy actuation, switches, automatic, track mechanism. Cl. 246-351+.
Vertical motion, Vehicle-energy actuation, train-trips. Cl. 246-368+.
Vertical movement, Cable-rails, hangers and saddles. Cl. 104-116.
Vertical movement, Door mechanism, sliding doors. Cl. 187-58+.
Vertical needle, Special machines, embroidering. Cl. 112-98+.
Vertical offset, Cutters, inserted blade. Cl. 29-109.
Vertical pipe, Flasks. Cl. 22-98.
Vertical pipes and tubes, Molding. Cl. 49-31.
Vertical pivot, Boxes, crates, knockdown, folding. Cl. 217-48.
Vertical pivot, Boxes, knockdown, folding. Cl. 217-16.
Vertical pivot, Trunks, tray movers and supporters, pivoted tray. Cl. 190-32.
Vertical plane, Radiator type, zigzag. Cl. 257-149.
Vertical, Planing, planers, reciprocating cutter. Cl. 90-43+.
Vertical plate, Liquid-coolers, tank. Cl. 62-163+.
Vertical plate, Trickler. Cl. 257-187.
Vertical, Platform adjustments, main frame. Cl. 56-214+.
Vertical plunger, Sand-feeders. Cl. 291-36+.
Vertical position, Shockers. Cl. 56-425+.
Vertical position, Shockers, automatic feed. Cl. 56-410+.
Vertical position, Shockers, automatic feed, self-binding. Cl. 56-404+.
Vertical, Radiator type, loop-tube. Cl. 257-145.
Vertical, Radiator type, spur-tube. Cl. 257-147.
Vertical, Receptacle fixed, stirrer, rotating, axis fixed, single stirrer. Cl. 259-107+.
Vertical, Receptacle plural, fixed, stirrer, rotating, single stirrer, axis fixed. Cl. 259-66+.
Vertical, Reeling and unreeling, reels, spring-drum type. Cl. 242-109.
Vertical, Retorts. Cl. 48-123.
Vertical return, Vertical casing, internal tube. Cl. 257-222.
Vertical roller, Tops, curtains. Cl. 296-142.
Vertical rotary agitator, Agitators and conveyers, plate. Cl. 257-117.
Vertical rotary agitator, Agitators and conveyers, plate, superposed. Cl. 257-118.
Vertical rotary agitator, Agitators and conveyers, vertical tank, internal tube. Cl. 257-106.
Vertical rotary agitator, Agitator and conveyers, vertical tank, jacketed. Cl. 257-106.
Vertical rotary agitator, Agitators and conveyers, vertical tank, jacketed, internal tube. Cl. 257-109.
Vertical rotary, Agitators and conveyers. Cl. 257-120.
Vertical rotary conveying-agitator, Agitators and conveyers. Cl. 257-112.
Vertical rotary drum, Agitators and conveyers. Cl. 257-110.+
Vertical rotary plate, Agitators and conveyers. Cl. 257-115.
Vertical rotary scraper, Agitators and conveyers. Cl. 257-113+.
Vertical rotary-tube agitator, Agitators and conveyers, plate, superposed. Cl. 257-119.
Vertical rotary-tube agitator, Agitators and conveyers, vertical tank. Cl. 257-104.
Vertical rotary-tube agitator, Agitators and conveyers, vertical tank, jacketed. Cl. 257-107.
Vertical sandwich, Ties, forms. Cl. 238-36.
Vertical, Saw-table gages, angular adjustment. Cl. 143-170.
Vertical, Sawing, reciprocating saw. Cl. 29-74.
Vertical screw, Vertically adjustable. Cl. 155-92+.
Vertical sectional, Radiator type. Cl. 257-151.
Vertical sectional, Radiator type, sheet metal. Cl. 257-140.
Vertical sections, Sectional. Cl. 122-221+.
Vertical shafts. Cl. 34-34.
Vertical shank, Fastenings, clamps, anchors. Cl. 238-345.
Vertical shift, Case-shifts, platen. Cl. 197-73.
Vertical side pivot, Trucks. Cl. 105-179.
Vertical slide and swing, Doors, car, grain. Cl. 20-34.
Vertical slide, Doors, car, grain. Cl. 20-32+.
Vertical slide, Fastenings, rail-brace. Cl. 238-337.
Vertical slide, Special car-bodies, freight, stakes, releasable. Cl. 105-386.
Vertical slide, Switches, hook. Cl. 179-165.
Vertical sliding panel, Special car-bodies, passenger, convertible open and closed. Cl. 105-333+.
Vertical sliding pins, Couplings, Janney type. Cl. 213-14.
Vertical spindle, automatic centering, Journal-boxes. Cl. 64-48.
Vertical spindle, Journal-boxes, lubricating. Cl. 64-56.
Vertical spur, Flue, vertical, internal water-tube. Cl. 122-181.
Vertical spur, Vertical casing, internal tube. Cl. 257-231.
Vertical, Staff-holders. Cl. 248-38.
Vertical, Stalk-choppers, revolving. Cl. 55-62.
Vertical, Steam treatment, fire-tube boiler. Cl. 122-467.
Vertical, Steam treatment, flue-boiler Cl. 122-468.
Vertical, Stirrers, rotating, axis fixed, single stirrer. Cl. 259-134+.
Vertical swing, Windows, sliding and swinging sash, separable hinge. Cl. 20-47.
Vertical, Switches. Cl. 104-131.
Vertical swivels, Suspended. Cl. 105-156.
Vertical, Tank. Cl. 122-234.
Vertical tank, Agitators and conveyers. Cl. 257-103+.
Vertical telescope, Ties, cross-section, tubular, rectangular. Cl. 238-73.
Vertical, Torpedo mechanism, magazine. Cl. 246-213.
Vertical trap-axis, Fluid-delivery, gravity conversion. Cl. 291-10.
Vertical tube, One confined fluid. Cl. 257-251+.
Vertical, Vertical casing, internal tube. Cl. 257-224+.
Vertical, Water-tube. Cl. 122-332+.
Vertical, Water-tube, coil. Cl. 122-249+.
Vertical, Water-tube, internal fire-tube. Cl. 122-271+.
Vertical, Water-tube, loop, over fire-box. Cl. 122-282+.
Vertical water-tube, Radiator type, motor-vehicle. Cl. 257-129+.
Vertical, Water-tube, spur. Cl. 122-318+.
Vertical wedge, Fastenings, clamps, clip type. Cl. 238-353.
Vertical-wedge operated, Fastenings, transverse slide. Cl. 238-334.
Vertical wedge, Rail-joints, chair, angle, transverse slide. Cl. 238-204.
Vertical, with actuating means, Feeding and discharging, receptacle fixed, stirrer rotating, axis fixed, single stirrer. Cl. 259-8.
Vertical zigzag, Tank, internal tube. Cl. 257-206.
Vertical zigzag, Vertical casing, internal tube. Cl. 257-223.
Vertically adjustable. Cl. 155-88+.
Vertically-adjustable arm, Drilling-machines, radial. Cl. 77-28.
Vertically-adjustable brackets, Bracket-supported. Cl. 155-82.
Vertically-adjustable burner or tank, Burners, liquid fuel, fuel-feeding, maintained oil-level. Cl. 158-42.
Vertically adjustable, Fabric-making, slat and wire, portable machines, strand-twisters. Cl. 140-43.
Vertically adjustable, Hinges. Cl. 16-113.
Vertically adjustable, Light-supports. Cl. 240-67+.
Vertically-adjustable standards, Wheeled, running-gear, bolsters and standards. Cl 280-146.
Vertically adjustable, Thresher attachments. Cl. 193-18.
Vertically adjustable, Vertically-swinging load-support, shovel or fork type, horizontally swinging. Cl. 214-133.
Vertically adjustable, Wheeled, extensible. Cl. 280-43+.
Vertically adjustable, Wheeled, running-gear, tongue-truck. Cl. 280-83.
Vertically and folding, Light-ray type, gun-sights, variable. Cl. 33-57.
Vertically and laterally, Light-ray type, gun-sights, variable. Cl. 33-56.
Vertically and longitudinally tilting, Platform adjustments, main frame. Cl. 56-212+.
Vertically, Grates, adjustable. Cl. 126-154.
Vertically guided, Tide or wave, float. Cl. 253-10.
Vertically, laterally, and folding, Light-ray type, gun-sights, variable. Cl. 33-55.
Vertically, Light-ray type, gun-sights, variable. Cl. 33-58.
Vertically-movable bed, Jointing staves, inclined molding-heads. Cl. 147-26.
Vertically movable, Feeding, tables. Cl. 80-47.
Vertically movable, Hopper type, bottom-opening, hinged doors, longitudinally hinged only, oppositely swinging, outwardly only. Cl. 298-36.
Vertically-movable jaws, Traction, cables, grippers. Cl. 104-218+.
Vertically-movable jib, Rotary cranes, fluid. Cl. 212-33+.
Vertically-movable jib, Rotary cranes, fixed radius. Cl. 212-64.
Vertically-movable jib, Rotary cranes, variable radius. Cl. 212-57.
Vertically-movable panels, Bodies, storm-front shields, aprons, and robes, windshields. Cl. 296-89.
Vertically movable, Special car-bodies, sleeping, berths. Cl. 105-317+.
Vertically movable, Traction, cables, grippers, rollers. Cl. 104-232+.
Vertically-movable valve, Lubricators, gravity-feed. Cl. 184-82.
Vertically moving. Cl. 269-6.
Vertically-moving frame, Bedsteads, invalid. Cl. 5-45.
Vertically-moving frame, Bedsteads, sofa. Cl. 5-51.
Vertically pivoted. Cl. 39-87.
Vertically pivoted, Car brakes and catches, car-supported, speed-controlled, rail side. Cl. 187-91.
Vertically-pivoted frame, Windows, sliding and swinging sash. Cl. 20-51.
Vertically pivoted, Mechanically operated. Cl. 39-51+.
Vertically pivoted, Mechanically operated, automatic return. Cl. 39-22+.
Vertically-pivoted sash, Windows, sliding and swinging sash, sliding frame. Cl. 20-48.
Vertically-pivoted sash, Windows, sliding and swinging sash, sliding stile. Cl. 20-50.

Vertically-reciprocating valve, Lubricators, gravity-feed, automatic cut-off. Cl. 184-74+.
Vertically-reciprocating vibrator, Ribbon mechanism, visible. Cl. 197-159.
Vertically removable, Bodies, end-gates. Cl. 296-52.
Vertically-slidable hatch, Hatch mechanism. Cl. 187-66.
Vertically-sliding closure, Hoisting-bucket type, bottom or side discharge. Cl. 294-72.
Vertically sliding, Doors, thermal control. Cl. 189-48.
Vertically sliding, Draw, gates, bridge-operated, displacement. Cl. 14-58+.
Vertically sliding, Draw, gates, bridge-operated, shaft rotation. Cl. 14-66+.
Vertically sliding, Draw, gates, hand or motor operated. Cl. 14-52.
Vertically-sliding sash, Windows. Cl. 189-72+.
Vertically sliding, Shutters. Cl. 189-60.
Vertically-sprung rail, Electric actuation, car-actuated circuit-controllers. Cl. 246-251.
Vertically swinging: *See* Horizontally and, Cl. 214.
Vertically-swinging arms, Special, baby-jumpers. Cl. 155-18.
Vertically-swinging brackets, Bracket-supported. Cl. 155-80.
Vertically swinging, Doors, thermal control Cl. 189-50.
Vertically swinging, Draw, gates, bridge-operated, displacement. Cl. 14-60+.
Vertically swinging, Draw, gates, bridge-operated, shaft rotation. Cl. 14-68+.
Vertically swinging, Draw, gates, hand or motor operated. Cl. 14-53.
Vertically-swinging hoist-frame. Cl. 212-8+.
Vertically-swinging jib, Rotary cranes, fluid. Cl. 212-35.
Vertically-swinging jib, Rotary cranes, variable radius. Cl. 212-58+.
Vertically-swinging load-support. Cl. 214-130+.
Vertically-swinging load-support and endless or rotary carrier, Combined carriers. Cl. 214-91.
Vertically-swinging load-support and hoist or dragline, Combined carriers. Cl. 214-92.
Vertically-swinging load-support, Roadway vehicle loading or unloading, self loading or unloading vehicles. Cl. 214-77+.
Vertically-swinging shovel and auxiliary carrier, Combined carriers. Cl. 214-90.
Vertically swinging, Water control, water-gates. Cl. 61-25+.
Vertically, Tables, adjustable. Cl. 45-111.
Vertically traveling material, Kilns. Cl. 25-143.
Vertically-vibrating diaphragm, Stuff-working, strainers, flat screen, horizontal stationary. Cl. 92-32.
Vessel raising and docking. Cl. 114-44+.
Vessel saving devices: *See* Life and, Cl 114.
Vessel, Soldering, clamps. Cl. 113-100.
Vessels. Cl. 229-1+.
Vessels: *Cf.* Ships.
Vessels: *See* Domestic cooking. Cl. 53.
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Vessels: *See* Measuring. Cl. 73.
Vessels: *See* Portable. Cl. 169.
Vessels: *See* Submarine. Cl. 114.
Vessels and stands, Heaters. Cl. 219-43.
Vessels and supply devices, Batteries. Cl. 204-53.
Vessels, Heaters. Cl. 219-44.
Vessels, Water-heaters. Cl. 126-370+.
Vestibule connections, Trains. Cl. 105-8+.
Vestibule, Stock-cars. Cl. 119-14.
Vests, Body-garments. Cl. 2-97.
Veterinary. Cl. 32-35.
Veterinary. Cl. 167-10.
Veterinary, Diagnostics, specula, non-pivoted gags. Cl. 128-14.
Veterinary, Diagnostics, specula, pivoted. Cl. 128-19.
Veterinary, Instruments, forceps, obstetric. Cl. 128-324.
Veterinary, Medicators, dosing devices, oral. Cl. 128-223.
Vibrant armature, Kinesitherapy, vibrators. Cl. 128-41.
Vibrant membrane, Kinesitherapy, appliances with applicators having specific movement. Cl. 128-64.
Vibrant slide, Kinesitherapy, vibrators. Cl. 128-43.
Vibratable shell, With agitating or conveying. Cl. 233-5.
Vibrated clamp, Special machines, article-attaching, flat button. Cl. 112-112.
Vibrated needle, Special machines, article-attaching, flat button. Cl. 112-111.
Vibrated saw, Reciprocating-saw machines. Cl. 143-81+.
Vibrating arm, Motors, electric. Cl. 236-77.
Vibrating blade, Plaiters. Cl. 223-44.
Vibrating blade, Work-manipulating, ruffers and gatherers, attachments. Cl. 112-135.
Vibrating delivery-chute, Drilling, frame and planting-element arrangement, rigid, single row. Cl. 111-76.
Vibrating diaphragm: *See* Vertically. Cl. 92.
Vibrating hopper, Drilling, frame and planting-element arrangement, rigid, single row. Cl. 111-75.
Vibrating, Molding apparatus, drawing pattern. Cl. 22-56.
Vibrating needle, Special machines, article-attaching, eye-shank button. Cl. 112-109.
Vibrating needle, Special machines, buttonhole, clamp-feeding. Cl. 112-73.
Vibrating needle, Stitch-forming, zigzag. Cl. 112-158+.
Vibrating pattern: *See* Pressing and, Cl. 22.
Vibrating, retouching, stands. Cl. 95-108.
Vibrating tool, Burnishing-machines. Cl. 12-78+.
Vibrating trough, Step by step. Cl. 198-61.
Vibrator: *See* Vertically reciprocating. Cl. 197.
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Winding, Automatic, push-rod actuated. Cl. 188-21.
Winding-axle. Cl. 188-67.
Winding, Clocks. Cl. 58-46+.
Winding, Clocks, electric. Cl. 58-40+.
Winding, Composite, spring. Cl. 185-10+.
Winding, Composite, weight. Cl. 185-6+.
Winding feature, Ball-making, golf-ball. Cl. 154-19.
Winding-drum. Cl. 188-68.
Winding-drum, Electric, magnetic clutch. Cl. 188-37.
Winding-drum, Motor mechanism. Cl. 187-27.
Winding-drum, Portable. Cl. 187-11.
Winding-drum, Wheeled, attachments, hitching and controlling devices, wheel-operated. Cl. 280-190+.
Winding-drum, Wheel or axle drive, pawl and ratchet, pawl on axle-bracket. Cl. 105-126.
Winding-drums and sand-reels. Cl. 242-117.
Winding-lift, Forging, power hammers and presses, drop. Cl. 78-30.
Winding, Reels. Cl. 24-29.
Winding, Spring. Cl. 185-39+.
Winding, Train-operated. Cl. 188-62.
Winding, Watches. Cl. 58-80+.
Winding, Weight. Cl. 185-32+.
Windlass: *See* Cable and, Cl. 228.
Windlass: *See* Strap and, Cl. 144.
Windlass, Baling, plunger. Cl. 100-12.
Windlass, Expressing, plunger. Cl. 100-46.
Windlass, Lazy-tongs. Cl. 227-18.
Windlass water-elevator. Cl. 103-35.
Windmill lubrication. Cl. 184-4.
Windmill-turntable, Gearing, pivoted supports. Cl. 74-102.
Windmills, Skeleton towers, arrangement. Cl. 189-18.
Window. Cl. 268-4.
Window: *See* Door and, Cl. 33.
Window: *See* Door and, Cl. 116.
Window-bead fasteners. Cl. 16-29.
Window, Building-lights. Cl. 52-60.
Window-cleaners. Cl. 15-59.
Window-cleaners, Fountain-brushes. Cl. 15-53.
Window-cornices. Cl. 156-13.
Window-cranes. Cl. 20-57.
Window-exhibited sign or shutter, Vehicle, motion and direction. Cl. 116-42+.
Window frames: *See* Door and, Cl. 20.
Window-frost preventive. Cl. 134-27.
Window-gardens. Cl. 47-41.
Window guard: *See* Shutter or, Cl. 228.
Window guards: *See* Door and, Cl. 20.
Window jamb: *See* Door or, Cl. 232.
Window, Provision-safes. Cl. 45-104.
Window-reflectors. Cl. 52-67.
Window, Scaffolds. Cl. 20-87.
Window-screens. Cl. 156-14.+
Window-shades. Cl. 156-10.
Window-stile-pocket cutting, Special-work machines, combined. Cl. 144-19.
Window troughs: *See* Door and, Cl. 20.
Window-ventilators. Cl. 98-31+.
Windowed panels: *See* Top-supported. Cl. 296.
Windowed, Tops, curtains. Cl. 296-145.
Windows. Cl. 20-40+.
Windows. Cl. 72-99.
Windows. Cl. 189-64+.
Windows: *See* Doors and, Cl. 296.
Windows: *See* Stove doors and, Cl. 126.
Windrowing: *See* Cutting and, Cl. 56.
Wines. Cl. 195-36.
Wing, Balloons, propelled. Cl. 244-9.
Wing, Flying-machines. Cl. 244-20.
Wing, Flying-machines, aeroplane, propelled. Cl. 244-17.
Wing, Propellers. Cl. 244-27.
Wing, Switch-connected frogs, swinging rail. Cl. 246-391.
Winged, Harrows. Cl. 55-150.
Winged, Harrows, wheel. Cl. 55-93.
Winged, Non-reciprocating piston, oscillating. Cl. 121-99.
Wings: *See* Foldable side. Cl. 293.
Wiper: *See* Former and, Cl. 12.
Wiper: *See* Reciprocating bed with roller-inker and web. Cl. 101.
Wiper: *See* Roller-inker with, Cl. 101.
Wiper: *See* Roller-inker with web. Cl. 101.
Wiper: *See* Transfer with scraper. Cl. 101.
Wiper: *See* Web. Cl. 101.
Wiper-folder, Lasting-machines, nipper-stretcher. Cl. 12-10.
Wiper, Intaglio, rotary machines. Cl. 101-155+.
Wiper-stretcher, Lasting-machines. Cl. 12-12+.
Wipers and dusters. Cl. 91-59.
Wipers, Intaglio. Cl. 101-167+.
Wipers or brushes, Machines, affixing-magazine, moving. Cl. 216-38.
Wipers, Soldering. Cl. 113-97.
Wipers, Systems, conveying devices. Cl. 134-10.
Wipers, with metal, Finishing. Cl. 91-50.4.
Wiping and clearing: *See* Discharger. Cl. 221.
Wiping and coating: *See* Mold. Cl. 18.
Wire. Cl. 205-13+.
Wire. Cl. 220-19.
Wire. Cl. 256-32+.
Wire: *See* Applying. Cl. 140.
Wire: *See* Cord or, Cl. 40.
Wire: *See* Curved and reticulated. Cl. 119.
Wire: *See* Formed. Cl. 2.
Wire: *See* Hot. Cl. 171.
Wire: *See* Joining. Cl. 140.
Wire: *See* Sheet metal and, Cl. 51.
Wire: *See* Single. Cl. 56.
Wire: *See* Slat and, Cl. 140.
Wire: *See* Slat and, Cl. 245.
Wire: *See* Threaded and indented. Cl. 85.
Wire-actuated valve: *See* With, Cl. 111.
Wire-appliers: *See* Tie. Cl. 140.
Wire, Ball-ears. Cl. 220-92.
Wire, Bale and package ties. Cl. 24-27+.
Wire, Bale and package ties, metal bands, separate connections. Cl. 24-26.
Wire, Bale and package ties, wire, separate connections. Cl. 24-20.
Wire, Barrels, closures, covers. Cl. 217-65.
Wire, Belt-fasteners. Cl. 24-39.
Wire, Bobbin and cop winding. Cl. 242-25.

Wire, Bottle-stoppers, fasteners. Cl. 215-27.
Wire, Bottle-stoppers, internal, extension. Cl. 215-31.
Wire, Bottle-stoppers, pivoted, looking, lever, top. Cl. 215-46.
Wire, Boxes, stave, driving. Cl. 217-71.
Wire, Boxes, straps. Cl. 217-68.
Wire, Chains. Cl. 59-83.
Wire-choker, Traps. Cl. 42-27.
Wire, Clasps, resilient. Cl. 24-261.
Wire-cleaners: *See* Felt and, Cl. 92.
Wire, Closures, opening devices, cutting. Cl. 220-49+.
Wire, Clothespins. Cl. 24-139.
Wire coil: *See* Tire and, Cl. 150.
Wire-controlled: *See* Suspended. Cl. 200.
Wire, Cord and rope holders, lacing-terminals. Cl. 24-122.
Wire, Cord and rope holders, one-piece. Cl. 24-131.
Wire, Crossed rods or wires, separate connections. Cl. 287-50.
Wire-crossers, Fabric-making, slat and wire, portable machines, strand-twisters. Cl. 140-45+.
Wire-cutting. Cl. 140-141+.
Wire cutting and straightening. Cl. 140-139+.
Wire, Dies. Cl. 205-29.
Wire distribution, Switchboards. Cl. 179-98.
Wire-drawing. Cl. 247-23+.
Wire-driven: *See* Line. Cl. 111.
Wire, edge-winding: *See* Flat. Cl. 153.
Wire-end-anchoring devices, Drilling, hill-planting machines, depositing mechanisms, line-wire driven. Cl. 111-49.
Wire fabrics and structure. Cl. 245
Wire-feed: *See* Direct. Cl. 1.
Wire-feeding. Cl. 140-125+.
Wire-feeding: *See* Barb. Cl. 140.
Wire-glass, Molding. Cl. 49-32.
Wire-glass, Processes, molding. Cl. 49-86.
Wire guide, Integral line, non-releasing-matrix machines. Cl. 199-3+.
Wire, Handles. Cl. 220-95.
Wire, Hooks. Cl. 248-26+.
Wire inserting and cutting, Machines, shoe. Cl. 1-23+.
Wire, Looms. Cl. 139-39.
Wire, Mats. Cl. 15-64.
Wire-nail forming and driving, Implements. Cl. 1-51.
Wire-nail forming and driving, Machines, shoe. Cl. 1-37+.
Wire nails, Nail-making. Cl. 10-43+.
Wire or strip feeding, Work-handling mechanism. Cl. 78-97.
Wire, Picture stands and supports. Cl. 40-153.
Wire, Pin-fasteners, guards. Cl. 24-159.
Wire-reinforced, Fabrics. Cl. 154-53.
Wire, Reinforcing elements, lathing. Cl. 72-119+.
Wire, Separable fasteners, head and socket, axial closures, resilient head. Cl. 24-215.
Wire, Separable fasteners, head and socket, axial closures, resilient socket. Cl. 24-218.
Wire, Separable fasteners, hook and eye. Cl. 24-223+.
Wire-shears. Cl. 30-17.
Wire-splices, Connectors. Cl. 173-263+.
Wire-straightening. Cl. 140-147+.
Wire-strippers. Cl. 81-9.5.
Wire-supports: *See* Electric. Cl. 189.
Wire, Ties, non-metallic, plastic compound, internal reinforcements. Cl. 238-94.
Wire-twister type, Compressing and binding. Cl. 56-451+.
Wire-twister type, Cutting, conveying, and binding. Cl. 56-132.
Wire-twisting. Cl. 140-149.
Wire-working. Cl. 140.
Wire-wound, Well-casing, drive-points and strainers. Cl. 166-8.
Wired slats, Boxes, crates. Cl. 217-51.
Wireless distant control, Block-signal systems, automatic, electric, direct current, normally closed, track-circuit. Cl. 246-44+.
Wireless distant control, Block-signal systems, automatic, electric, varying-current track-circuit. Cl. 246-38.
Wirers: *See* Brim. Cl. 223.
Wires: *See* Binding. Cl. 129.
Wires: *See* Crossed rods or, Cl. 287.
Wires: *See* Hat. Cl. 140.
Wires: *See* Longitudinal. Cl. 139.
Wires: *See* File. Cl. 139.
Wires: *See* Pins and transfer. Cl. 129.
Wires: *See* Rods and, Cl. 80.
Wiring: *See* House. Cl. 247.
With actuating means, Discharging, receptacle fixed, stirrer, rotating, axis fixed, single stirrer, horizontal. Cl. 259-46.
With actuating means, Discharging, receptacle fixed, stirrer, rotating axis fixed, single stirrer, vertical. Cl. 259-44.
With actuating means, Feeding and discharging, receptacle fixed, stirrer rotating axis fixed, sinlge stirrer, horizontal. Cl. 259-10.
With actuating means, Feeding, receptacle fixed, stirrer, rotating, single stirrer, axis fixed, horizontal. Cl. 259-26.
With actuating means, Feeding, receptacle fixed, stirrer, rotating, single stirrer, axis fixed, vertical. Cl. 259-24.
With actuating means, Receptacle fixed, stirrer, rotating, axis fixed, single stirrer horizontal. Cl. 259-110.
With actuating means, Receptacle fixed, stirrer, rotating, axis fixed, single stirrer, vertical. Cl. 259-108.
With actuating means, Receptacle plural, fixed, stirrer, rotating, single stirrer, axis fixed, horizontal. Cl. 259-69.
With actuating means, Receptacle plural, fixed, sitrrer, rotating, single stirrer, axis, fixed, vertical. Cl. 259-67.
With actuating means, Stirrers, rotating, axis fixed, single stirrer, horizontal. Cl. 259-137.
With actuating means, Stirrers, rotating, axis fixed, single stirrer, vertical. Cl. 259-135.
With actuating means, Stirrers, translating, single stirrer. Cl. 259-141.
With additional wheel attachment, Wheeled, hand, trucks and barrows, two-wheel. Cl. 280-54.
With adjustable planter elements, Drilling, frame and planting-element arrangement. Cl. 111-69.
With agitating or conveying. Cl. 233-3+.
With anchor in concrete, Rail-seats. Cl. 238-265.
With articles. Cl. 226-2+.
With articles and fluent materials. Cl. 226-1.
With attaching means, Strips, with platen. Cl. 281-12+.
With attaching means, Strips, with platen, strip retained. Cl. 281-9.
With automatic regulator, Drilling, hill-planting machines, check-correcting. Cl. 111-17.
With auxiliary frame, Drilling, frame and planting-element arrangement, sectional main frame, flexible. Cl. 111-55.
With auxiliary retainer, Grapples, pivoted jaws, hay-fork type. Cl. 294-108.
With auxiliary retainer, Hay-fork type, single tilting fork. Cl. 294-123.
With balanced valve. Cl. 121-182+.
With balancing pressure-chamber, Closed fluid - heaters, pressure - operated. Cl. 236-27.
With base-plate, Rail-joints, chair, twin. Cl. 238-190.
With base - plate, Rail - joints, insulated, splice-bars. Cl. 238-160.
With bases, Poles and posts. Cl. 72-83+.
With beating element, Motors, relay, pyrometer-galvanometer. Cl. 236-70.
With binder's platform, Cutting and conveying, reciprocating - cutter type. Cl. 56-160+.
With binding-detent, Ribbon, band, or flat rod, interlocked or lapped, sleeved. Cl. 287-66.
With body or load retainers, Wheeled, running-gear. Cl. 280-107.
With boiler-leveler, Steam traction-engines. Cl. 180-39.
With bottom support, Special, fruit-jar type, holders. Cl. 81-3.3.
With bow-spacers, Tops, let-down type, down-supports, clamping. Cl. 296-129.
With car control. Cl. 293-2+.
With carding, Continuous. Cl. 118-37.
With carrier, Rigs, rotary tool. Cl. 255-21.
With catchers, Cornstalk type, cutters, with choppers. Cl. 56-61.
With cervical cup, Bandaging, pessaries, intra-uterine. Cl. 128-131.
With changeable exhibitor, Cigar-cutters, tip, combined. Cl. 131-65.
With choppers, Cornstalk type, cutters. Cl. 56-60+.
With circuit-controller, Locks, for multiple controlling means. Cl. 70-127.
With cleaning composition, Antismut devices, cleaners. Cl. 101-424.
With collector, Special car-bodies, passenger, dust-guards, car-bottom. Cl. 105-352.
With compresser, Shockers. Cl. 56-430.
With condensate-separator, Gas-operated, rotary, end supply. Cl. 263-76.
With controller, Automatic instruments, general structure, mechanical. Cl. 84-175+.
With controller, Automatic instruments, spurs and picks, mechanical. Cl. 84-212+.
With controller, Automatic instruments, stringed, mechanical. Cl. 84-220+.
With controller, Automatic instruments, stringed, pianos, mechanical. Cl. 84-230+.
With controller, Automatic instruments, wind, organs, mechanical. Cl. 84-244+.
With conveyer, Marine. Cl. 56-9.
With cooling, Exhaust treatment, fine ejection. Cl. 60-91.
With cores, Molds, sand. Cl. 22-131+.
With cover or end-gate control, Tilting. Cl. 298-23.
With cover or end-gate control, Two-wheel. Cl. 298-6.
With crank-axle lift, Drilling, frame and planting-element arrangement, main and auxiliary frame. Cl. 111-68.
With crank-pin, Wheels. Cl. 295-2.
With crank-shaft, Wheel or axle drive, plane gear. Cl. 105-115+.
With cut-off, Filtration, reticulated screen, cleaning. Cl. 183-53+.
With deflection, Liquid treatment. Cl. 183-21+.
With deflectors, Non-ambulant discharge and supply, adjustable discharging member, nozzles. Cl. 299-74.
With deflectors, Non-ambulant discharge and supply, nozzles. Cl. 299-76.
With dischargers, Cornstalk type, cutters. Cl. 56-71+.
With discharging-catcher, Cutting and conveying, reciprocating-cutter type, endless carrier. Cl. 56-184.
With discharging-pusher, Charging or discharging apparatus, furnace type, reciprocating-bar conveyer, charge-supporting. Cl. 214-29+.
With draft attachment, Runner. Cl. 280-24.
With draft attachment, Wheeled, running-gear, swinging axle. Cl. 280-116.
With draft attachment, Wheeled, running-gear, swinging axle connections. Cl. 280-132.
With drawing or feeding, Continuous. Cl. 118-38+.
With driving means, Standing-grain gatherers, rotating reel, horizontal axis, adjustable position. Cl. 56-222+.
With driving mechanism. Cl. 264-2.
With endless-chain gatherers only, Cornstalk type, pickers or huskers, roller, auxiliary ear-detacher. Cl. 56-108.
With endless-chain gatherers only, Cornstalk type, pickers or huskers, roller, plurality of rows. Cl. 56-106.
With endless or rotary carrier, Charging or discharging apparatus, furnace type, reciprocating-bar conveyer. Cl. 214-25.
With external coöperating means, Roadway vehicle loading or unloading. Cl. 214-38+.
With feed-stop, Stopping, spinning-couple. Cl. 118-7.
With feed, Strips. Cl. 282-21.
With feed, Strips and leaves. Cl. 282-7.
With feed, Strips and leaves, strip retained. Cl. 282-5.
With feed, Strips, carbon. Cl. 282-20.
With feed, Strips, leaf retained. Cl. 282-18.
With feed, Strips, strip retained. Cl. 282-16.
With feed, Strips, strip retained, carbon. Cl. 282-15.
With feed, Strips, with platen. Cl. 281-11.
With feed, Strips, with platen, strip retained. Cl. 281-8.
With filler, Wheels, webs, sheet metal. Cl. 295-23.
With filtering. Cl. 233-2.
With filtration, Liquid treatment. Cl. 183-9+.
With finishing mechanisms, Separate type, casting mechanisms. Cl. 199-81+.
With float-controlled pilot, Traps, thermostatic. Cl. 236-55.
With fluent materials. Cl. 226-19+.
With fluid-actuated valve, Duplex. Cl. 121-115.
With fluid-actuated valve, Multiple expansion. Cl. 121-108.
With fluid distribution. Cl. 233-16+.
With fluid-pressure actuator. Cl. 279-4.
With fluid, Solid metal, heat treatment. Cl. 148-20+.
With fluid treatment. Cl. 233-12+.
With follow-up devices, Servo-motor type, Cl. 121-41+.
With foot-lever, Cutting, reciprocating side cutter, front cut, coaxial wheels, lifting and rocking cutter-bar. Cl. 56-277+.

With foot-lever, Cutting, reciprocating side cutter, front cut, coaxial wheels, lifting cutter-bar, cutter-bar mountings only. Cl. 56–285.
With fume-arrester. Cl. 266–15+.
With gas-heater. Cl. 266–14.
With gas-heater, furnaces. Cl. 263–15+.
With gas-inlet, Fluid distribution, valved, multiple valves, connected, gas by-pass. Cl. 261–46.
With gas-inlet, Fluid distribution, valved, multiple valves, connected, liquid-inlet. Cl. 261–50.
With gas-inlet, Fluid distribution, valved, multiple valves, gas by-pass. Cl. 261–55.
With gas-inlet, Fluid distribution, valved, multiple valves, liquid-inlet. Cl. 261–59.
With gas-outlet, Fluid distribution, valved, multiple valves, connected, gas by-pass. Cl. 261–47.
With gas-outlet, Fluid distribution, valved, multiple valves, connected, liquid-inlet. Cl. 261–51.
With gas-outlet, Fluid distribution, valved, multiple valves, gas by-pass. Cl. 261–56.
With gas-outlet, Fluid distribution, valved, multiple valves, liquid-inlet. Cl. 261–60.
With gate, Platforms, trap-doors. Cl. 105–429.
With gates, Roadway vehicle loading or unloading, self loading or unloading vehicles, wheeled or sledded scoops, elevating. Cl. 214–69+.
With gatherers, Cornstalk type, cutters. Cl. 56–94+.
With gatherers, Cornstalk type, cutters, with dischargers, crane type. Cl. 56–73+.
With gatherers, Cornstalk type, cutters, with dischargers, horizontally moving and tilting. Cl. 56–80+.
With gatherers, Cornstalk type, cutters, with dischargers, tilting. Cl. 56–84+.
With generator, Electric control, starting and generating dynamo. Cl. 290–32+.
With generator, Electric control, traction, electric traction motor. Cl. 290–14+.
With generator, Electric control, traction, electric traction-motor, with starting and generating dynamo. Cl. 290–11.
With guide-rollers, Traction, cables, grippers, laterally-movable jaws. Cl. 104–215.
With guide-rollers, Traction, cables, grippers, vertically-movable jaws. Cl. 104–220+.
With heat and liquid, Treating solid metal. Cl. 266–4.
With heat exchange. Cl. 233–11.
With heat, Processes. Cl. 91–70+.
With heat, Solid metal, coating. Cl. 148–7.
With heat, Treating solid metal. Cl. 266–5.
With heating or cooling. Cl. 261–9+.
With hoist, Special car-bodies, sleeping, berths, vertically movable. Cl. 105–318.
With hook, bail or eye, Flexible rod or strand, socket. Cl. 287–82.
With hook, Special car-bodies, dumping, door-actuators, multiple door, interconnected, links. Cl. 105–291.
With horizontal translation and vertical adjustment, Mechanically operated, multiple movement, on vertical pivot. Cl. 39–12.
With horizontal translation and vertical adjustment, Multiple movement, on vertical axis. Cl. 39–79.
With horizontal translation, Mechanically operated, multiple movement, on vertical pivot. Cl. 39–16.
With horizontal translation, Multiple movement, on two axes. Cl. 39–77.
With horizontal translation, Multiple movement, on vertical axis. Cl. 39–83.
With ignition means and changeable exhibitor, Cigar-cutter, tip, combined. Cl. 131–63.
With ignition means, Cigar-cutters, tip, combined. Cl. 131–64.
With indicating means, With fluent materials, special types, funnels. Cl. 226–32.
With indicator or alarm, Thermostatic. Cl. 236–94.
With indicator, Radially-reciprocating jaws. Cl. 279–111.
With indicators, Buildings, jails, doors, boltwork. Cl. 189–8.
With integral tire, Wheels, webs, sheet metal. Cl. 295–24.
With interrupters or condensers, Stationary induction apparatus. Cl. 175–357.
With jacket or lagging. Cl. 121–181.
With journal, Rotary-shaft couplings. Cl. 64–104.
With knife, Cornstalk type, pickers or huskers, fixed snapper, comb. Cl. 56–115.
With Lead-line, Restraining devices, hitching, releasers. Cl. 119–111.
With ledger-plate, Cutting, cutter members, reciprocating, guard fingers and bars, fingers only. Cl. 56–311.
With ledger-plate, Cutting, cutter members, reciprocating, guard fingers and bars, modified finger. Cl. 56–300.
With leveling device. Cl. 180–41.
With lever, Cutting, reciprocating, central cutter, coaxial wheels, cam-drive. Cl. 56–263.
With lever, Cutting, reciprocating central cutter, coaxial wheels, pitman-drive. Cl. 56–261.
With lifting means, Horse-rakes, wheel-supported. Cl. 56–397+.
With link, Couplings, combined drawbar and hook. Cl. 213–4.
With lift and ungear, Drilling, frame and planting-element arrangement, main and auxiliary frame, floating auxiliary, tool-bar type. Cl. 111–67.
With liquid-inlet, Fluid distribution, valved, multiple valves, connected, gas by-pass. Cl. 261–48.
With liquid-inlet, Fluid distribution, valved, multiple valves, gas by-pass. Cl. 261–57.
With liquid separation. Cl. 183.3.
With liquid separation. Cl. 261–2+.
With liquid, Treating, solid metal. Cl. 266–6+.
With liquid treatment, Processes, thermal. Cl. 183–120.
With load-delivering chute. Cl. 298–7.
With locks, Servo-motor type. Cl. 121–40.
With longitudinal folder, Folders, combination. Cl. 270–66.
With means for treatment, With fluent materials, general types. Cl. 226–68+.
With mechanical motor, Combined types. Cl. 60–7+.
With metal. Cl. 91–69.1+.
With metal, Processes. Cl. 91–68.1+.
With metal, Processes, with heat. Cl. 91–70.1+.
With metal, Special machines. Cl. 91–12.1+.
With modifiers. Cl. 264–3+.
With modifiers, Special distributing-valve actuation, fluid-actuated. Cl. 121–151.
With modifiers, Special distributing-valve actuation, transmission-actuated, engine-shaft-actuated gear, with shifting eccentric sheave, automatic shift. Cl. 121–175.
With motor, Special car-bodies, dumping, tilting body, pivoted. Cl. 105–271.
With motor, Special car-bodies, dumping, tilting body, rolling tilt. Cl. 105–265.
With movable feeder, Raking and loading, endless carrier. Cl. 56–358+.
With movable feeder, Raking and loading, endless carrier, intermittent discharge. Cl. 56–347+.
With movable feeder, Raking and loading, endless carrier, rear delivery. Cl. 56–351+.
With movable feeder, Raking and loading, endless carrier, side delivery. Cl. 56–355+.
With operating devices, Buttons and fasteners, separable, spring. Cl. 24–110.
With operator, Flush. Cl. 39–6.
With opposed coupling, Flexible or yielding pipe, internal nipple. Cl. 285–83.
With oscillatory valve. Cl. 121–186.
With padlock, Locks, valve. Cl. 70–125.
With pencils, Books, covers. Cl. 281–30.
With pickers or huskers, Cornstalk type, cutters. Cl. 56–64+.
With pipes, Organs, reed. Cl. 84–112.
With pivoted striker: *See* Fixed. Cl. 116.
With platen, Strips. Cl. 281–6+.
With platform, Scales, beam. Cl. 265–55.
With platforms. Cl. 228–17.
With plural materials, With fluent materials, general types, filling. Cl. 226–100.
With pockets, Books, covers. Cl. 281–31.
With pouched receptacles, Receptors, catamenial and diaper. Cl. 128–286.
With power transmission. Cl. 233–23+.
With pressure control, Air-relief valves, radiator type, thermostatic. Cl. 236–61.
With pressure control, Thermostatic. Cl. 236–92.
With pressure-generator, Blowpipe, flame-deflecting jet. Cl. 158–27.6.
With printing. Cl. 270–1+.
With pulls, Books, covers. Cl. 281–32.
With pump-supply, Rotary. Cl. 138–20.
With puppet-type valve. Cl. 121–185.
With receptacle, Cigar-cutters, tip, combined. Cl. 131–66.
With relieving-gear, Scales, platforms. Cl. 265–72.
With revolving blade, Folders, combination. Cl. 270–63+.
With rollers. Cl. 180–20.
With rollers, Car-replacer, two-way. Cl. 104–266.
With rotary valve. Cl. 121–187.
With rotatable needle-bar, Special machines, buttonhole, clamp-feeding. Cl. 112–71.
With safety-screen, With fluent materials, general types. Cl. 226–67.
With scatterer, Traversing machines. Cl. 275–7+.
With scatterer, Traversing machines, manure-spreader type, belt-conveyer type. Cl. 275–6.
With separate float, Air-relief valves, radiator type, thermostatic. Cl. 236–62.
With setting-screw, Socket type, self-grasping, one-way-clutch type. Cl. 279–27.
With shifting eccentric-pin, Special distributing-valve actuation, transmission-actuated, engine-shaft-actuated gear. Cl. 121–171+.
With shifting eccentric sheave, Special distributing-valve actuation, transmission-actuated, engine-shaft-actuated gear. Cl. 121–173+.
With shoe-point socket, Cutting, track-clearers and dividers. Cl. 56–318.
With side guides, Monorail. Cl. 104–119.
With side guides, Monorail. Cl. 105–144+.
With sliding leaf. Cl. 283–65.
With sliding reciprocating valve. Cl. 121–198+.
With spark-arresters, Flue-ejectors. Cl. 162–5+.
With special compositions, Solid metal, heat treatment. Cl. 148–14+.
With special transmission. Cl. 121–117+.
With sprayer, Restraining devices, hitching, releasers. Cl. 119–112.
With springs, Motor placement, bar-supports. Cl. 105–139.
With starting and generating dynamo, Electric control, traction, electric traction-motor. Cl. 290–10+.
With steps, Platforms, trap-doors. Cl. 105–430+.
With stitching mechanism, Work-manipulating, trimmers. Cl. 112–123.
With strippers, Cornstalk type, cutters. Cl. 56–62.
With supports, With fluent materials, special types, funnels. Cl. 226–31.
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